

## PHASE II ESA -SUBSURFACE INVESTIGATION

5333 W. 25<sup>th</sup> Street Cicero, Illinois 60804 Cook County



Prepared for:

Town of Cicero 4949 West Cermak Road Cicero, Illinois 60804

June 16, 2010

#### CERTIFICATION

To the best of my knowledge and belief this investigation and evaluation have been performed in conformance with all applicable legal requirements and accepted practices prevailing in the environmental consulting industries. The personnel who performed the investigation are properly licensed and certified in accordance with the requirements of federal, state, and local laws, rules and regulations.

K-Plus Engineering, its officers, and its employees have no present or contemplated interest in the property or the parties involved. Our employment and compensation for preparing this report are not contingent upon any action or event resulting from the analyses, opinions, observations, or conclusions, in or from the use of, this report. The statements contained herein, on which our observations, opinions, and conclusions were based, are deemed factual. The reported analyses, opinions, observations, and conclusions are unbiased, professional, and limited only by the reported assumptions, qualifications, and conditions stated herein. All information in this report is from sources deemed to be reliable; however, no representation or warranty is made as to the accuracy thereof. If necessary, expert testimony and other legal appearances will be provided for a reasonable fee to be arranged.

This report has been prepared specifically for the use by our Client. No third party may use the information in this report without obtaining the permission of both K-Plus Engineering and the client, for whom this report was prepared. In no event may this report be used in whole or in part in any public offering or security without the prior written consent of K-Plus Engineering. No abridgment, abstracting, or excerpting of this report may be made for any purpose whatsoever without obtaining the permission of K-Plus Engineering.

Sincerely,

K-PLUS ENGINEERING

Jessica Madsen Sr. Project Manager

Daniel M. Caplice, P.E.

iel M. Caplace

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#### 1.0 INTRODUCTION

On Tuesday, May 25, 2010, K-Plus Engineering, LLC (K-Plus) conducted a Phase II Environmental Site Assessment - Subsurface Investigation of the industrial property located at 5333 W. 25<sup>th</sup> Street in Cicero, Illinois (Subject Property). In order to evaluate the subsurface soils, a total of five (5) soil borings were advanced to a depth of 12 feet below ground surface (bgs). Analytical testing of the soil samples included: volatile organic compounds (VOCs) including benzene-toluene-ethylbenzene-xylenes (BTEX), semi-volatile organic compounds (SVOC), RCRA total metals and polynuclear aromatic hydrocarbons (PNAs). This document outlines the investigation activities that were completed by K-Plus at the Subject Property to determine if the historic use of the Subject Property has adversely impacted the subsurface soil.

The weather conditions at the time of the inspection were sunny with a temperature of approximately 80 degrees Fahrenheit (°F). As a tool in preparing this report and documenting the conditions encountered at the property, copies of all supporting documents that were relied upon during this project have also been included as appendices in this report.

#### 2.0 SUBJECT PROPERTY

The Subject Property is located on the south side of West 25<sup>th</sup> Street between 53<sup>rd</sup> Avenue and 54<sup>th</sup> Avenue. Specifically, the property is located at 5333 W. 25<sup>th</sup> Street in Cicero, Cook County, Illinois (Figure 1).



Figure 1 – Site Location Map

#### 2.2 Site Features

The Subject Property measures approximately 9,400 square feet (ft<sup>2</sup>) and is currently developed with a one-story industrial building. The building on the Subject Property was noted as constructed of brick masonry on a concrete slab foundation. The building encompasses the entire lot of the

Subject Property, a concrete sidewalk is noted to the north and the public alley is to the south.

The northern front of the building was partially finished as office and retail space. The front area was noted as finished with the following: floors were finished with 9" and 12" vinyl floor tiles, with area rugs in high traffic areas; the interior walls were painted drywall and wood paneling; the ceilings were finished with plaster or tile; and fluorescent lighting was noted used throughout the office areas.



The southern rear of the building was noted as largely unfinished, with exposed/painted concrete floors, unfinished walls, and a steel truss

ceiling.

The Subject Property uses natural gas supplied by People's Gas for the Subject Property's heating system. Commonwealth Edison provides electricity to the building. According to the site contact, the building is connected to the Town of Cicero (via City of Chicago) water and sewer systems.



## 2.3 Surrounding Area

The Subject Property is located in a mixed use area. Specifically, the Subject Property is bounded on the **north** by West 25<sup>th</sup> Street, followed by a parking lot and residential apartment building; on the **south** by a public alley, followed by residential family homes; on the **east** by a residential property; and on the **west** by a vacant retail/commercial building, followed by similar properties (Figure 2).



Figure 2 – Site and Surrounding Area (aerial from October, 2007)

### 2.4 Topography

In general, the topography of the Subject Property is relatively flat, with no discernible elevation changes. According to the United States Geological Survey 7.5 Minute Series Topographic Map of Berwyn, Illinois Quadrangle (1998), the Subject Property lies at a relative surface elevation of approximately 606 feet above mean sea level. The nearest surface water body is South Branch of the Chicago River which is located within  $2\frac{1}{2}$  of a mile south of the Subject Property. Regional groundwater flow in the area is expected to flow in a southerly direction (Figure 3).

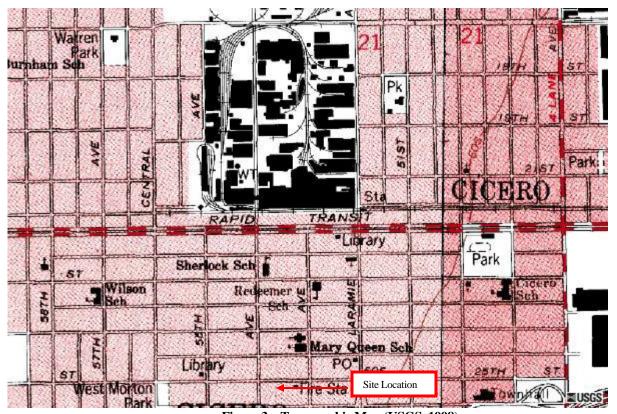


Figure 3 – Topographic Map (USGS, 1998)

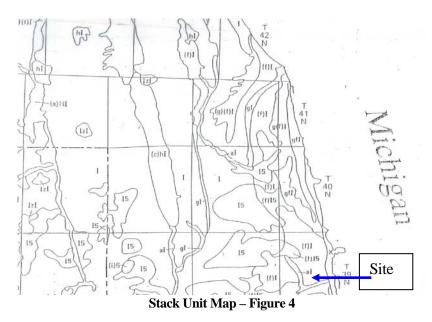
## 2.5 Site Geology

Field observations made during the drilling activities indicated that the subsurface geology at the Subject Property was dominated by brown or gray stiff clayey soils. Specifically, the investigator noted that soils directly below the concrete floor were dominated with native clay materials. From 4 to 8 feet bgs soils were dominated by brown and gray mottled clay, followed by brown (or gray) soft to firm clay soil, which was identified to a depth of approximately 10 to 12 feet (maximum boring termini). Groundwater was not encountered at the property during this investigation. Copies of the boring logs, including the geologic conditions and field observations made during the subsurface assessment, are included in Appendix 2.

In order to categorize and further assess the geologic conditions encountered at the Subject Property, K-Plus consulted various sources of information including geological maps constructed by the Illinois State Geological Survey. Specific geologic maps used during this investigation include Stack-Unit Mapping of Geologic Materials in Illinois to a Depth of 15 Meters; Potential for Contamination of Shallow Aquifers by Land Burial of Municipal Wastes; and Potential for Contamination of Shallow Aquifers by Surface and Near-Surface Waste Disposal.

The "Stack-Unit Map" reviewed was compiled by the Illinois State Geological Survey from information collected as a part of a geological mapping project sponsored by the Illinois Environmental Protection Agency. The Stack-Unit Map is a particular way of representing geological data to show the distribution of earth materials vertically from the surface to a specified depth as well as horizontally over a specified area. This map provides a foundation for interpretive maps for assessing potential for contamination from waste disposal sites; construction conditions; groundwater availability; and potential for mineral resources such as sand, gravel, dolomite, limestone, or near-surface deposits of coal. The map makes possible the evaluation of the potential uses of any material or sequence of materials.

According to the Surficial Geology of the Chicago Region, the geology at the Subject Property consists primarily of soils in the Lake Plain, which consists primarily of floors of glacial lakes flattened by wave erosion and by minor deposition in low areas; largely underlain by glacial till; thin deposits of silt, clay and sand of the Equality Formation present locally. This is corroborated by the Stack-Unit Map, these materials are present at depths greater than approximately 19.7 feet (6 m) thick (Figure 4).



K-Plus also consulted the following geological maps: Potential for Contamination of Shallow Aquifers by Land Burial of Municipal Wastes; and Potential for Contamination of Shallow Aquifers

by Surface and Near-Surface Waste Disposal. These maps were constructed by the Illinois State Geological Survey to describe and map geologic materials to a depth of 50 feet throughout the state. In these maps, various geologic materials were differentiated by thickness, texture, permeability, and stratigraphic position in order to rate their relative contamination potential for aquifers in any area of the state.

According to the Berg Map, the regional geologic materials in the area are designated as type as an "E"-type soil (Figure 4). An "E" classification is described as uniform, relatively impermeable silty and clayey diamictons greater than 50 feet in thickness, with no evidence of interbedded sand and gravel.

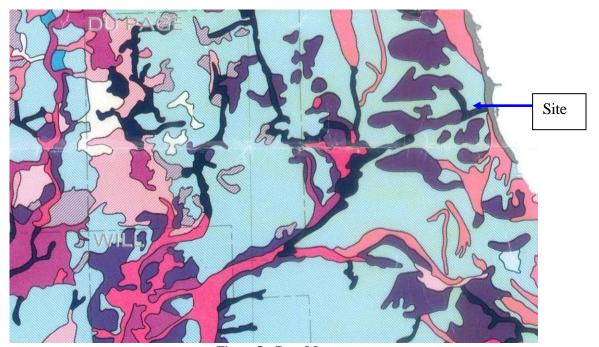


Figure 5 - Berg Map

#### 3.0 SITE HISTORY

As part of this investigation of this property, K-Plus conducted a Phase I Environmental Site Assessment, dated June 1, 2010. K-Plus identified the following Recognized Environmental Conditions (RECs).

- The Subject Property has utilized Underground Storage Tanks based on Sanborn maps, OSFM reports and verbal history. As many as six USTs may be present at the property which may have stored solvents and/or fuel oil.
- The Subject Property has been utilized for industrial purposes since its development including its prior use for "tire vulcanizing" and "laundry".

The following business risk was noted for the Subject Property:

Suspect asbestos containing materials were noted at the Subject Property.

#### 4.0 METHODS AND EQUIPMENT

All borings were completed under the direct supervision of a K-Plus inspector who was on-site during all field work to coordinate the drillers, choose appropriate environmental boring locations and sample depths, collect and screen soil samples, and log the geologic characteristics of each borehole. All drilling work was performed in accordance with applicable provisions of the American Society of Testing Materials (ASTM) standards for environmental and geotechnical drilling, which specify the techniques used for sampling and drilling.

#### 4.1 Drilling

All drilling was completed with a truck-mounted Geoprobe drill rig equipped with a Macro-Core<sup>®</sup> continuous-core sampler. The Geoprobe uses both static and dynamic percussion forces to advance various sampling apparatus to retrieve core samples. The Macro-Core<sup>®</sup> is a solid barrel, open steel tube that is four feet long, has an inside diameter of 2½ inches, and is equipped with a four foot plastic liner for sample collection. The use of sample liners greatly reduces the chance of cross contamination between samples and provides better sample recovery. The details of each boring were recorded on separate logs which contain the following information for each borehole:

- Lithology description for each change in stratum, and the level of each change;
- relative moisture content of each sample interval;
- length of sample recovery from every four feet of Macro-Core<sup>®</sup> sample;
- presence of any water and the level at which it was encountered;
- presence of contamination by field screening; and
- depth of the sample collection.

## 4.2 Field Screening and Sample Selection

In accordance with ASTM standards and in order to identify soil contamination, the on-site geologist determined the geologic lithology, and constructed a profile of each soil column from the continuous soil samples which were collected using a four foot Macro-Core<sup>®</sup> sampler at four foot intervals from surface level to the boring terminus. Undisturbed soil samples from each Macro-Core<sup>®</sup> were visually classified in the field according to the Unified Soil Classification System (USCS). The characteristics of each sample such as color, odor, texture, relative moisture, sediment type, or disturbance was immediately recorded in the test boring log.

All soil samples recovered during the fieldwork were field screened for the presence of contamination by visual and olfactory assessment, and evaluation using a photo-ionization detector (PID). All field screening observations were recorded on the respective boring logs along with the geologic data.

During the fieldwork, all individual Macro-Core<sup>®</sup> soil samples were immediately placed in sample containers and were labeled to identify the boring location, sample depth, and sample number. Generally, the soil sample from each boring which exhibits the greatest degree of contamination in the field is submitted for laboratory analysis. This methodology is useful when attempting to identify and characterize contamination in a specific area. In certain instances, multiple soil samples may be collected in order to better delineate the vertical extent of contamination. The first sample is collected from the most contaminated material in order to characterize the contamination and determine the concentrations of the specific contaminants, while the other samples are collected from other depths to assist in approximating the vertical extent of the contamination.

In instances where groups of borings from a specific areas of concern exhibit similar evidence of contamination (i.e. similar odor, similar discoloration pattern, etc.), soil samples from the individual borings were selected to provide the most information regarding the extent of contamination in that area. For example, when applicable, at least one soil sample is collected from the most grossly contaminated material in order to establish the types and concentrations of contaminants present. Soil samples from adjacent borings in the same area are often collected from below the obviously contaminated material in an attempt to approximate the vertical extent of the contamination in that area. This approach is effective in establishing the nature and approximate extent of contamination while conserving analytical costs.

### 4.3 Sample Preservation and Laboratory Analysis

At least one soil sample from each soil boring was selected for laboratory testing. Soil was packed "air tight" and placed into specially prepared glass sample jars equipped with Teflon lined lids for VOCs. Soil samples to be analyzed for VOCs were collected using a 5 gram soil syringe sampling tool. The 5 grams of soil were then immediately transferred to one 40 milliliter (mL) vial containing sodium hydrogen sulfate (NaHSO<sub>4</sub>) or Methanol preservatives. Each sample jar or 40 mL vial container was then labeled with a unique sample number to identify the sample's location, boring number, sample depth and date of collection. All samples were immediately preserved in a cooler until receipt by the laboratory for analysis. All samples were transferred to STAT Analysis Corporation (STAT) located in Chicago, Illinois under strict chain-of-custody procedures for analysis of VOCs according to standard United States Environmental Protection Agency (U.S. EPA) methodologies. All analytical testing was performed in accordance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP). All samples were analyzed within established holding times, all quality control testing met U.S. EPA or laboratory criteria, except where noted in the case narrative or analytical report. No data were qualified by the laboratory. All samples were analyzed for the requested parameters; there is no missing data. Where data was questionable when checked by K-Plus personnel, the laboratory was requested to check the data, and if necessary, re-analyze the sample to ensure that the data were accurate. Data meets quality control criteria.

#### 4.4 Decontamination

In order to ensure that no cross-contamination between soil sampling occurs, all non-dedicated sampling equipment was decontaminated after collection of each sample. Sampling equipment was scrubbed with a brush to remove loose material and then washed thoroughly with a laboratory grade detergent and water to remove all particulate matter and surface film. After washing, each piece was rinsed with clean tap water. Dedicated sampling equipment such as plastic scoops, spoons and latex gloves were disposed of after the handling of each sample was complete. Field equipment such as the water level, pH meter and temperature/conductivity meter were rinsed with distilled water between samples.

#### 5.0 SOIL INVESTIGATION FINDINGS

In order to evaluate the subsurface soils, a total of five (5) soil borings were advanced to a depth of 12 feet bgs at selected areas of the Subject Property. Soil borings (KP1 through KP5) were performed to determine if the operations at the property, both current and historic, had negative impacts to the subsurface.

#### 5.1 Field Observations

During the field activities, each borehole was evaluated for contaminants using visual and olfactory methods. Field observations indicated that evidence of staining was noted in several borings at the Subject Property. However, olfactory observations did not note significant evidence of contamination.

K-Plus monitored soil borings continuously using a PID. PID readings ranged from 0.0 to over 100 parts per million (ppm), with the highest reading found in the soil collected from KP3 which peaked at 102.6 before exceeding detection limits. Samples for PID analysis were collected from every four foot interval of each boring. The soil borings advanced at the Subject Property revealed subsurface soils that were dominated by soft to firm clayey soils. No groundwater was encountered during the investigation. All borings ended at 12 feet bgs in brown (or gray) clay. Detailed boring logs documenting geologic notes and observations made by the K-Plus geologist are included in Appendix 2.

## 5.2 Soil Analytical Results

K-Plus collected at least one (1) to two (2) soil samples from each soil boring. Samples were taken from intervals that exhibited the highest PID reading, or showed evidence of staining. Additional samples were taken in locations to help delineate any potential contamination that may have been found in the other samples.

For the purposes of this assessment, all soil analytical results were compared to the most stringent Tier I Soil Remediation Objectives (SROs) for residential properties identified in Section 35 Illinois Administrative Code (IAC) Part 742 – Tiered Approach to Corrective Action Objectives (TACO). In general, the SROs outlined in TACO are subdivided into three primary exposure pathways, including the soil ingestion, soil inhalation, and soil component of the groundwater ingestion exposure route (SCGIER).

A review of the laboratory analytical data showed that no concentrations of VOCs, PNAs, SVOCs or RCRA Metals were found above the soil SROs. However, based on the PID readings K-Plus requested the laboratory re-analyze a few samples to determine what, if any, contamination was present in the soil that would cause the elevated readings. Every sample collected from the property could not be re-analyzed; the sample may have been spent during the first analysis or could not be

#### **Phase II ESA - Subsurface Investigation**

5333 W. 25<sup>th</sup> Street Cicero, Illinois 60804

used for re-analysis. Therefore, four of the original nine samples collected were re-analyzed. According to the laboratory analysis "mineral spirits" were identified as present in the subsurface soil. Mineral spirits are not subject to Illinois regulations and do not have a remedial objective limit. Therefore, typically when evaluating a property for mineral spirits a "present/not present" evaluation is made.

According to laboratory data sheets (detailed in the case narrative section of the report), the analytical report identified gasoline (in the mineral spirit range analysis) in sample KP2A at 235 ppm and general mineral spirits were identified in samples KP3A (56 ppm), KP4A (37 ppm) and KP5A (55 ppm).

Tables of the soil laboratory analytical results are presented in Appendix 3 and laboratory data sheets are found in Appendix 4.

#### 6.0 CONCLUSIONS

This investigation was conducted in order to determine the extent of VOC, PNA, SVOC and RCRA metal contamination at the former lamp factory property at 5333 W. 25<sup>th</sup> Street in Cicero, Illinois based on former operations.

During this Subsurface Investigation, K-Plus found no signs of the above constituents in concentrations above Remediation Objectives established by Illinois EPA. However, K-Plus did identify the presence of mineral spirits at the property. Their presence is identified as contamination at the Subject Property. Due to the high volatility and strong odors their presence may impact redevelopment of the property.

# APPENDIX 1 DETAILED SITE FIGURES





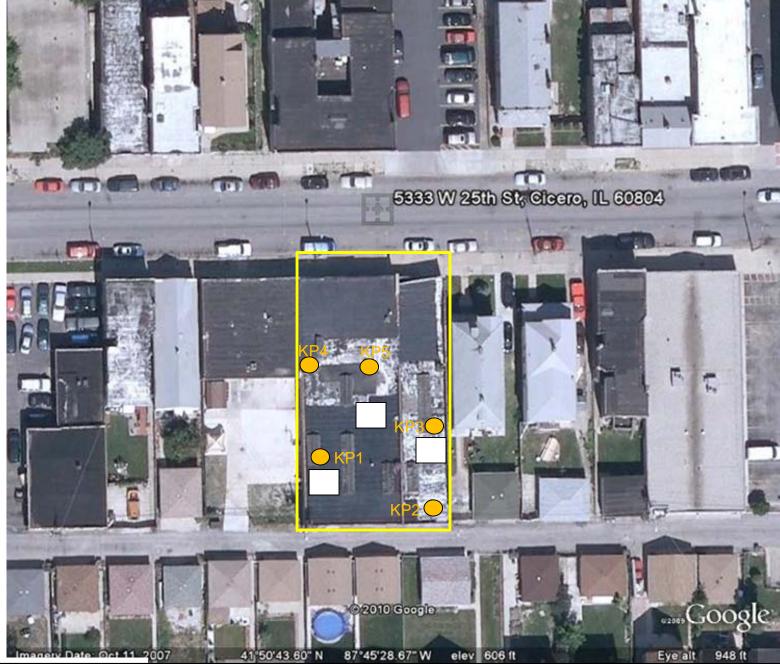


# **Site Base Map**

Azzolin Brothers 5333 W. 25<sup>th</sup> Street Cicero, Illinois

Scale:		
Scale.		

Document No. 12092D BaseMap.vsd







# **Boring Location Map**

Azzolin Brothers 5333 W. 25<sup>th</sup> Street Cicero, Illinois

Date:	June.	2010
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Scale:			

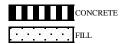
Document No. 17094L BaseMap.vsd

# APPENDIX 2 BORING LOGS





BORING / W	ELL NUMBER	1								
KP1										
PROJECT N	UMBER	PROJECT NAME				PROJECT LOCATION				
17094I	_	Lamp Facto	ory			5333 W. 25th Str	eet, Cicero, Illinois			
GEOLOGIST		1				DRILLING CONTRACTOR	· · · · · · · · · · · · · · · · · · ·			
Jessica	Madsen					Enviro-Dynamics	. LLC			
	EQUIPMENT / MET	THOD		SIZE / TYPE OF BIT		SAMPLING METHOD	, 220	START - FINISH	DATE	
	nounted Ge			2"		Macro Core		5/25/10 -		
WELL INST.		CASING MAT. / DIA	AMETED		TYPE	MATERIAL	LENGTH	DIAMETER	SLOT SIZE	
No	TELED.	CASING WAT. / DIA	AIVIL I LK	SCREEN.	THE	MITERIAL	EERGIII	DIAMETER	SEOT SIZE	
ELEVATION	I OE.	CDOLDED GUDEAG		TOP OF WELL CASING			TOP & BOTTOM OF SCREEN	CW CURE LCE	DATE	
(FT. ABOVE		GROUND SURFACE	E .	TOP OF WELL CASING	Γ		TOP & BOTTOM OF SCREEN	GW SURFACE	DATE	ı
DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.		DESCRIPTION		GEO.	WELL CONST.
						concrete/fill				
		<b>50</b>				brown med. grain	sand			
2		50		chemical odors		gray/black silty C	lav.			
						gray/black sifty C	iay			
	KP1		26.8							
<del></del> 4					1					
<del></del> 6		0		none						
<del></del>		<u> </u>			1					
10		0		none						
<del> 12</del>						EOD @ 121			<del> </del>	
L_						EOB @ 12'				
<del></del> 14		1								
<del></del> 16			-		1					
18		1								
20		ļ			4					



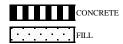


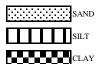






	ELL NUMBER	]							
KP2									
PROJECT N		PROJECT NAME				PROJECT LOCATION			
17094I		Lamp Facto	ory			5333 W. 25th Street, Cicero, Illinois			
GEOLOGIST									
	Madsen	WAR THE		laran (munn on num		Enviro-Dynamics, LLC	am i pm i pp vavi	D. 1 ME	
	EQUIPMENT / MET			SIZE / TYPE OF BIT			START - FINISH		
WELL INST	nounted Ge	OPPODE  CASING MAT. / DIA	METER	2"	TVDE	Macro Core  MATERIAL LENGTH	4/13/10 -	4/13/10 SLOT SIZE	
No	ALLED?	CASING MA1./ DIA	AMETEK	SCREEN:	TYPE	MATERIAL LENGTH	DIAMETER	SLU1 SIZE	
ELEVATION	N OF:	GROUND SURFACE	E	TOP OF WELL CASING		TOP & BOTTOM OF SCREEN	GW SURFACE	DATE	
(FT. ABOVE	EM.S.L.)								
DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.	DESCRIPTION		GEO.	WELL CONST.
						concrete/fill			
	KP2A					stiff gray Clay			
2	IXI ZA	20		chemical odors		Still glay Clay			
			14.4						
<del></del> 4						and and business as ottled Class			
						gray and brown mottled Clay			
		00		11.11					
6		90		slight odors					
_									
8			1.8						
o o						moist/tacky gray Clay			
10		100		no odors					
	KP2B		0						
12						EOB @ 12'			
						EOB @ 12			
14									
14		]							
_									
16									
<del></del> 18		4							
20									



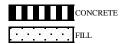








BORING / W	ELL NUMBER	]								
KP3										
PROJECT N	UMBER	PROJECT NAME				PROJECT LOCATION				
17094I	_	Lamp Facto	ory			5333 W. 25th Stre	et, Cicero, Illinois			
GEOLOGIST	7	1				DRILLING CONTRACTOR				
Jessica	Madsen					Enviro-Dynamics,	LLC			
	QUIPMENT / ME	ГНОД		SIZE / TYPE OF BIT		SAMPLING METHOD		START - FINISH	DATE	
	ounted Ge			2"		Macro Core		4/13/10 -		
WELL INST.		CASING MAT. / DIA	METER	SCREEN:	TYPE	MATERIAL	LENGTH	DIAMETER	SLOT SIZE	
No	ILLED.	CASING MAT./ DI	AMETER	SCREEN.	TILL	MITERIAL	EEAGIII	DIAWETER	DEOT BILL	
ELEVATION	I OE:	GROUND SURFACE		TOP OF WELL CASING			TOP & BOTTOM OF SCREEN	GW SURFACE	DATE	
(FT. ABOVE		GROUND SURFACE	B.	TOP OF WELL CASING	ı	Г	TOP & BOTTOM OF SCREEN	GW SURFACE	DATE	ı
DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.		DESCRIPTION		GEO.	WELL CONST.
						concrete/fill				
2		70		مام المسادة المسادة		stiff black Clay				
		70		chemical odors						
4			102.6							
4	KP3A				1	brown and gray m	ottled Clav			
<b>–</b>	111 5/1					orown and gray in	ottied City			
		100		.1						
<del></del> 6		100		chemical odors						
0										
<del></del> 8					1	soft brown Clay				
						Soft blown Clay				
		100		11.1.1						
<del></del>		100		slight odors		soft gray Clay				
						Soft gray Clay				
	KP3B		20.2							
12						EOB @ 12'				
						LOD @ 12				
<del> 14</del>		1								
<u> </u>										
<del></del> 16					1					
<u> </u>										
<del></del> 18		1								
20					1					
									<u> </u>	



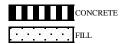








BORING / W	ELL NUMBER	1							
KP4									
PROJECT N	UMBER	PROJECT NAME				PROJECT LOCATION			
17094I	_	Lamp Facto	orv			5333 W. 25th Street, Cicero, Illinois			
GEOLOGIST		. r	<i>J</i>			DRILLING CONTRACTOR			
Jessica	Madsen					Enviro-Dynamics, LLC			
	QUIPMENT / ME	ГНОД		SIZE / TYPE OF BIT		SAMPLING METHOD	START - FINISH	DATE	
	ounted Ge			2"		Macro Core	4/13/10 -		
WELL INST.		CASING MAT. / DIA	METED		TYPE	MATERIAL LENGTH	DIAMETER	SLOT SIZE	
No	ILLED.	CASING MAT./ DI	AMETER	SCREEN.	THE	MINIERIE EEROTI	DIAWETER	SEOT SIZE	
ELEVATION	I OE:	GROUND SURFACE	F	TOP OF WELL CASING		TOP & BOTTOM OF SCREEN	GW SURFACE	DATE	
(FT. ABOVE		GROUND SURFACE	5	TOP OF WELL CASING		TOP & BOTTOM OF SCREEN	GW SURFACE	DATE	ı
DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.	DESCRIPTION		GEO.	WELL CONST.
						concrete/fill			
_									
2		10		.1		brown and gray mottled Clay			
2		10		chemical odors					
4			101.9						
<del></del> 4	KP4A								
	111 771								
6		90		aliaht adama					
_ 0		90		slight odors					
<u> </u>									
8			14.6			stiff brown Clay			
_ 0									
10		100		no odors					
10		100		no odors					
	KP4B		0			stiff gray Clay			
12								+	
						EOB @ 12'			
14		†							
L									
<del></del> 16									
<u> </u>									
18		1							
L									
20									



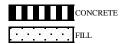








BORING / W	ELL NUMBER	7								
KP5										
PROJECT N	UMBER	PROJECT NAME				PROJECT LOCATION				
17094I	_	Lamp Facto	ry			5333 W. 25th Stre	et, Cicero, Illinois			
GEOLOGIST		1				DRILLING CONTRACTOR				
Jessica	Madsen					Enviro-Dynamics,	LLC			
	QUIPMENT / ME	ГНОД		SIZE / TYPE OF BIT		SAMPLING METHOD	LLC	START - FINISH	DATE	
	ounted Ge			2"		Macro Core		4/13/10 -		
WELL INST.		CASING MAT. / DIA	METER	SCREEN:	TYPE	MATERIAL	LENGTH	DIAMETER	4/ 1 3/ 1 U SLOT SIZE	
No	ALLED:	CASING MAT. / DIA	AMETER	SCREEN:	lire	MATERIAL	LENGTH	DIAMETER	SLOT SIZE	
ELEVATION	LOE			TOP OF WELL CASING			TOD & DOTTOM OF SCREEN	awarme, an	DATE	
(FT. ABOVE		GROUND SURFACE		TOP OF WELL CASING	Ι	Г	TOP & BOTTOM OF SCREEN	GW SURFACE	DATE	ı
DEPTH	LAB SAMPLE	RECOVERY (%)	PID (ppm)	REMARKS	UNIFIED CLASS.		DESCRIPTION		GEO.	WELL CONST.
						concrete/fill				
2		60				stiff black Clay				
		60		no odors						
4			3.2							
<del></del> 4					1	brown and gray m	ottled Clay			
						orown and gray in	ottica City			
		100								
<del></del> 6	KP5A	100		chemical odors						
	IXI JA									
0			100.4							
8						soft brown Clay				
						Soft brown Clay				
<del></del>		100		slight odors		soft gray Clay				
						Soft gray Clay				
	KP5B		82.3							
12						EOB @ 12'				
						LOD @ 12				
<del></del> 14		1								
<u> </u>										
<del></del> 16		†			1					
<del></del> 18		†								
20					1					







# APPENDIX 3 ANALYTICAL RESULT TABLES



#### Soil Results Table 5333 W. 25th Street

Cicero, Illinois *May 25, 2010* 

Laboratory ID: 10050651-001 10050651-002 10050651-003 10050651-004 10050651-005 10050651-006 10050651-007 10050651-008 10050651-009

Client Sample ID: KP1A KP2A KP2B KP3A KP3B KP4A KP4B KP5A KP5B Date Collected: 05/25/2010 08:20 05/25/2010 09:30 05/25/2010 09:30 05/25/2010 09:50 05/25/2010 09:50 05/25/2010 10:10 05/25/2010 10:10 05/25/2010 05/25/2010 05/25/2010 Soil Component of **Groundwater Ingestion** Route Specific Values for Soil **Exposure Route Values** CAS No. Inhalation Class I Class II ADL Analyte < 0.075 < 0.073 < 0.073 VOC 67-64-1 25 < 0.085 < 3.9 < 0.055 < 0.071 < 5.7 < 0.073 Acetone 70,000 100,000 25 71-43-2 Benzene 12 0.80.03 0.17< 0.0056 < 0.26 < 0.005 < 0.0049 < 0.0037 < 0.0047 < 0.0048 < 0.38 < 0.0048 3,000 75-27-4 Bromodichloromethane 10 0.6 0.6 < 0.0056 < 0.26 < 0.005 < 0.0049 < 0.0037 < 0.0047 < 0.0048 < 0.38 < 0.0048 < 0.0056 < 0.0047 75-25-2 81 53 0.80.8 < 0.26 < 0.005 < 0.0049 < 0.0037 < 0.0048 < 0.38 < 0.0048 Bromoform 74-83-9 110 10 / 3.9\* 0.21.2 < 0.011 < 0.53 < 0.01 < 0.0097 < 0.0073 < 0.0095 < 0.0097 < 0.75 < 0.0097 Bromomethane 78-93-3 2-Butanone < 0.085 < 3.9 < 0.075 < 0.073 < 0.055 < 0.071 < 0.073 < 5.7 < 0.073 7,800 720 32 160 75-15-0 Carbon disulfide < 0.056 < 2.6 < 0.05 < 0.049 < 0.037 < 0.047 < 0.048 < 3.8 < 0.048 56-23-5 Carbon tetrachloride 5 0.3 0.07 0.33 < 0.0056 < 0.26 < 0.005 < 0.0049 < 0.0037 < 0.0047 < 0.0048 < 0.38 < 0.0048 108-90-7 1,600 130 / 1.3\* Chlorobenzene 6.5 < 0.0056 < 0.26 < 0.005 < 0.0049 < 0.0037 < 0.0047 < 0.0048 < 0.38 < 0.0048 1 Chloroethane 75-00-3 < 0.011 < 0.53 < 0.01 < 0.0097 < 0.0073 < 0.0095 < 0.0097 < 0.75 < 0.009767-66-3 Chloroform 100 0.3 0.6 2.9 < 0.0056 < 0.26 < 0.005 < 0.0049 < 0.0037 < 0.0047 < 0.0048 < 0.38 < 0.0048 74-87-3 < 0.53 Chloromethane < 0.011 < 0.01 < 0.0097 < 0.0073 < 0.0095 < 0.0097 < 0.75 < 0.0097 124-48-1 Dibromochloromethane 1,600 1,300 0.40.4< 0.0056 < 0.26 < 0.005 < 0.0049 < 0.0037 < 0.0047 < 0.0048 < 0.38 < 0.0048 < 0.005 7,800 1,300 / 130\* 23 110 < 0.0056 < 0.0047 75-34-3 1,1-Dichloroethane < 0.26 < 0.0049 < 0.0037 < 0.0048 < 0.38 < 0.0048 107-06-2 1,2-Dichloroethane 7 0.40.02 0.1< 0.0056 < 0.26 < 0.005 < 0.0049 < 0.0037 < 0.0047 < 0.0048 < 0.38 < 0.0048 75-35-4 1,1-Dichloroethene 3,900 290 / 3.0\* 0.06 0.3 < 0.0056 < 0.26 < 0.005 < 0.0049 < 0.0037 < 0.0047 < 0.0048 < 0.38 < 0.0048 156-59-2 cis-1,2-Dichloroethene 780 1,200 0.41.1 < 0.0056 < 0.26 < 0.005 < 0.0049 < 0.0037 < 0.0047 < 0.0048 < 0.38 < 0.0048 < 0.0056 1,600 < 0.005 < 0.0037 < 0.0047 < 0.0048 156-60-5 trans-1,2-Dichloroethene 3,100 0.73.4 < 0.26 < 0.0049 < 0.38 < 0.0048 < 0.004778-87-5 1,2-Dichloropropane 9 15 / 0.50\* 0.03 0.15< 0.0056 < 0.26 < 0.005 < 0.0049 < 0.0037 < 0.0048 < 0.38 < 0.0048 10061-01-5 cis-1,3-Dichloropropene 6.4 1.1 / 0.39\* 0.0040.020.005< 0.0023 < 0.11 < 0.002 < 0.0019 < 0.0015 < 0.0019 < 0.0019 < 0.15 < 0.0019 10061-02-6 trans-1,3-Dichloropropene 6.4 1.1 / 0.39\* 0.0040.02 0.005 < 0.0023 < 0.11 < 0.002 < 0.0019 < 0.0015 < 0.0019 < 0.0019 < 0.15 < 0.0019 100-41-4 Ethylbenzene 7,800 400 / 58\* 13 19 < 0.0056 < 0.26 < 0.005 < 0.0049 < 0.0037 < 0.0047 < 0.0048 < 0.0048 < 0.38 591-78-6 2-Hexanone < 0.023 < 0.02 < 0.019 < 0.015 < 0.019 < 0.019 < 1.1 < 1.5 < 0.019 108-10-1 4-Methyl-2-pentanone < 0.023 < 1.1 < 0.02 < 0.019 < 0.015 < 0.019 < 0.019 < 1.5 < 0.019 75-09-2 Methylene chloride 85 13 0.02 0.2 < 0.011 < 0.53 < 0.01 < 0.0097 < 0.0073 < 0.0095 < 0.0097 < 0.75 < 0.0097 780 8,800 / 140\* 0.32 0.32 1634-04-4 Methyl tert-butyl ether < 0.0056 < 0.26 < 0.005 < 0.0049 < 0.0037 < 0.0047 < 0.0048 < 0.38 < 0.0048 100-42-5 Styrene 16,000 1,500 / 430\* < 0.0056 < 0.005 < 0.0049 < 0.0037 < 0.0047 < 0.0048 < 0.38 < 0.0048 18 < 0.26 4 79-34-5 1,1,2,2-Tetrachloroethane < 0.0056 < 0.26 < 0.005 < 0.0049 < 0.0037 < 0.0047 < 0.0048 < 0.38 < 0.0048 127-18-4 Tetrachloroethene 12 11 0.06 0.3 < 0.0056 < 0.26 < 0.005 < 0.0049 < 0.0037 < 0.0047 < 0.0048 < 0.38 < 0.0048 108-88-3 Toluene 16,000 650 / 42\* 29 < 0.0056 < 0.26 < 0.005 < 0.0049 < 0.0037 < 0.0047 < 0.0048 < 0.0048 12 < 0.38 71-55-6 1,1,1-Trichloroethane 1,200 2 9.6 < 0.0056 < 0.26 < 0.005 < 0.0049 < 0.0037 < 0.0047 < 0.0048 < 0.38 < 0.0048 ---79-00-5 310 1,800 0.02 0.3 < 0.0056 < 0.26 < 0.005 < 0.0049 < 0.0037 < 0.0047 < 0.0048 < 0.38 < 0.0048 1,1,2-Trichloroethane 58 5 0.3 79-01-6 Trichloroethene 0.06 < 0.0056 < 0.26 < 0.005 < 0.0049 < 0.0037 < 0.0047 < 0.0048 < 0.38 < 0.0048 75-01-4 Vinyl chloride 0.46 0.280.01 0.07 < 0.0056 < 0.26 < 0.005 < 0.0049 < 0.0037 < 0.0047 < 0.0048 < 0.38 < 0.0048 1330-20-7 Xylenes, Total 16,000 320 / 5.6\* 150 150 < 0.017 < 0.79 < 0.015 < 0.015 < 0.011 < 0.014 < 0.015 < 1.1 < 0.015 83-32-9 4,700 570 2,900 < 0.027 < 0.03 0.035 < 0.028 < 0.028 < 0.03 < 0.029 < 0.036 < 0.03 PNA Acenaphthene ---208-96-8 Acenaphthylene < 0.027 < 0.03 < 0.029 < 0.028 < 0.028 < 0.03 < 0.029 < 0.036 < 0.03 23,000 12,000 59,000 < 0.027 120-12-7 Anthracene < 0.03 < 0.029 < 0.028 < 0.028 < 0.03 < 0.029 < 0.036 < 0.03 56-55-3 0.9 8 < 0.027 < 0.03 < 0.029 < 0.028 < 0.028 < 0.03 < 0.029 < 0.036 < 0.03 Benz(a)anthracene ---50-32-8 0.09 82 < 0.027 < 0.03 < 0.029 < 0.028 < 0.028 < 0.03 < 0.029 < 0.036 < 0.03 Benzo(a)pyrene ---205-99-2 0.9 25 < 0.027 < 0.03 < 0.029 < 0.028 < 0.028 < 0.03 < 0.029 < 0.036 < 0.03 5 Benzo(b)fluoranthene ---191-24-2 Benzo(g,h,i)perylene < 0.027 < 0.03 < 0.029 < 0.028 < 0.028 < 0.03 < 0.029 < 0.036 < 0.03 207-08-9 Benzo(k)fluoranthene 9 49 250 < 0.027 < 0.03 < 0.029 < 0.028 < 0.028 < 0.03 < 0.029 < 0.036 < 0.03 218-01-9 88 160 800 < 0.027 < 0.029 < 0.028 < 0.029 < 0.036 Chrysene < 0.03 < 0.028 < 0.03 < 0.03 ---53-70-3 Dibenz(a,h)anthracene 0.09 2 7.6 < 0.027 < 0.03 < 0.029 < 0.028 < 0.028 < 0.03 < 0.029 < 0.036 < 0.03 ---206-44-0 3,100 4,300 21,000 < 0.027 < 0.03 < 0.029 < 0.028 < 0.028 < 0.03 < 0.036 Fluoranthene < 0.029 < 0.03 86-73-7 Fluorene 3,100 560 2,800 < 0.027 < 0.03 < 0.029 < 0.028 < 0.028 < 0.03 < 0.029 < 0.036 < 0.03 193-39-5 Indeno(1,2,3-cd)pyrene 0.914 69 < 0.027 < 0.03 < 0.029 < 0.028 < 0.028 < 0.03 < 0.029 < 0.036 < 0.03 91-20-3 1,600 170 / 1.8\* Naphthalene 12 18 < 0.027 < 0.03 < 0.029 < 0.028 < 0.028 < 0.03 < 0.029 0.044< 0.03 < 0.03 < 0.029 < 0.028 < 0.028 < 0.03 < 0.029 < 0.036 85-01-8 Phenanthrene < 0.027 < 0.032,300 129-00-0 Pyrene 4,200 21,000 < 0.027 < 0.03 < 0.029 < 0.028 < 0.028 < 0.03 < 0.029 < 0.036 < 0.03

#### Soil Results Table

5333 W. 25th Street Cicero, Illinois May 25, 2010

 Laboratory ID:
 10050651-001
 10050651-002
 10050651-003
 10050651-004
 10050651-005
 10050651-006
 10050651-007
 10050651-008 10050651-009

 Client Sample ID:
 KP1A
 KP2A
 KP2B
 KP3A
 KP3B
 KP4A
 KP4B
 KP5A
 KP5B

 Date Collected:
 05/25/2010 08:20 05/25/2010 09:30 05/25/2010 09:30 05/25/2010 09:30 05/25/2010 09:50 05/25/2010 09:50 05/25/2010 10:10 05/25/2010 10:10 05/25/2010 10:10
 05/25/2010 05/25/2010
 05/25/2010

				Soil Com	ponent of	
					ter Ingestion	
		Route Specific	Values for Soil		Route Values	
CAS No.	o. Analyte	Ingestion	Inhalation	Class I	Class II	ADL
SVOC 62-53-3	Aniline					
92-87-5	Benzidine					
65-85-0	Benzoic acid	310,000		400	400	
100-51-6		, - • •				
111-91-1	Bis(2-chloroethoxy)methane					
111-44-4	•	0.6	0.2	0.0004	0.0004	0.66
117-81-7	Bis(2-ethylhexyl)phthalate	46	31,000	3,600	31,000	0.00
101-55-3		40	31,000	3,000	31,000	
		16 000	020	020	020	
85-68-7	Butyl benzyl phthalate	16,000	930	930	930	0.0010
621-64-7	N-Nitrosodi-n-propylamine	0.09		0.00005	0.00005	0.0018
86-74-8	Carbazole	32		0.6	2.8	
87-86-5	Pentachlorophenol	3		0.03	0.14	
106-47-8	4-Chloroaniline	310		0.7	0.7	
59-50-7	4-Chloro-3-methylphenol					
91-58-7	2-Chloronaphthalene					
95-57-8	2-Chlorophenol	390	53,000	4	4	
7005-72-3	-		52,000	•	•	
132-64-9	1 0 1 0					
95-50-1	1,2-Dichlorobenzene	7,000	560 / 310*	17	43	
541-73-1	1,3-Dichlorobenzene	7,000	500/510	1 /	43	
	*		11,000 / 340*	2	1.1	
106-46-7		1	ŕ	2	11	1.0
91-94-1	3,3'-Dichlorobenzidine	1		0.007	0.033	1.3
120-83-2		230		1	1	
84-66-2	Diethyl phthalate	63,000	2,000	470	470	
105-67-9	• •	1,600		9	9	
131-11-3	Dimethyl phthalate					
534-52-1						
51-28-5	2,4-Dinitrophenol	160		0.2	0.2	3.3
121-14-2	-	0.9		0.0008	0.0008	0.25
606-20-2		0.9		0.0007	0.0007	0.26
84-74-2		7,800	2,300	2,300	2,300	0.20
	Di-n-butyl phthalate					
	Di-n-octyl phthalate	1,600	10,000	10,000	10,000	
118-74-1	Hexachlorobenzene	0.4	1	2	11	
87-68-3	Hexachlorobutadiene					
77-47-4	Hexachlorocyclopentadiene	550	10 / 1.1*	400	2,200	
67-72-1	Hexachloroethane	78		0.5	2.6	
78-59-1	Isophorone	15,600	4,600	8	8	
91-57-6	2-Methylnaphthalene	•	•			
95-48-7	2-Methylphenol	3,900		15	15	
106-44-5		3,700		13	13	
88-74-4	2-Nitroaniline					
99-09-2	3-Nitroaniline					
100-01-6						
88-75-5	2-Nitrophenol					
100-02-7	4-Nitrophenol					
98-95-3	Nitrobenzene	39	92/9.4*	0.1	0.1	0.26
62-75-9	N-Nitrosodimethylamine					
86-30-6	N-Nitrosodiphenylamine	130		1	5.6	
108-60-1	2, 2'-oxybis(1-Chloropropane)					
108-95-2		23,000		100	100	
110-86-1	Pyridine	25,000		100	100	
	•	700	2 200 / 020*	5	52	
120-82-1	1,2,4-Trichlorobenzene	780	3,200 / 920*	5	53	
95-95-4	2,4,5-Trichlorophenol	7,800		270	1,400	
88-06-2	2,4,6-Trichlorophenol	58	200	0.2	0.77	0.66

				Laborator	y ID:10050651-001	10050651-002	10050651-003	10050651-004	10050651-005	10050651-006	10050651-007	10050651-008	10050651-009
				Client Sample	e ID: KP1A	KP2A	KP2B	KP3A	KP3B	KP4A	KP4B	KP5A	KP5B
				Date Colle	cted: 05/25/2010 08:2	0 05/25/2010 09:30	0 05/25/2010 09:30	05/25/2010 09:50	05/25/2010 09:50	05/25/2010 10:10	05/25/2010 10:10	05/25/2010	05/25/2010
			Soil Comp	onent of									
			Groundwate	r Ingestion									
	Route Specific	Values for Soil	Exposure Ro	oute Values									
CAS No. Analyte	Ingestion	Inhalation	Class I	Class II	ADL								
INORG 7440-38-2 Arsenic	13.0/11.3	750			3	3.3	4.8	6.4	11	3.7	17	4.9	7.7
7440-39-3 Barium	5,500	690,000			21	57	21	79	55	79	78	120	59
7440-43-9 Cadmium	78	1,800			< 1.1	< 1.1	< 1.1	< 1.2	< 1.1	< 1.2	< 1.1	< 1.3	< 0.59
7440-47-3 Chromium	230	270			4.5	16	8.9	16	14	16	17	23	20
7439-92-1 Lead	400				7.8	14	8.4	21	16	14	30	16	16
7439-97-6 Mercury	23	10 / 0.1*			< 0.027	< 0.028	< 0.028	< 0.029	< 0.028	< 0.028	< 0.028	< 0.034	< 0.029
7782-49-2 Selenium	390				< 1.1	< 1.1	< 1.1	< 1.2	< 1.1	< 1.2	< 1.1	< 1.3	< 1.2
7440-22-4 Silver	390				< 1.1	< 1.1	< 1.1	< 1.2	< 1.1	< 1.2	< 1.1	< 1.3	< 1.2

<sup>\* -</sup> Construction Worker Inhalation Objective from Appendix B, Table B.

# APPENDIX 4 LABORATORY DATA SHEETS



2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

June 15, 2010

K-Plus Environmental, Inc. 15 Spinning Wheel Drive Suite 320

Hinsdale, IL 60521

Telephone: (312) 207-1600 Fax: (312) 831-2191

RE: 17094, 5333 W. 25th St., Cicero, IL

STAT Project No 10050651

Dear Jessica Madsen:

STAT Analysis received 9 samples for the referenced project on 5/25/2010 11:25:00 AM. The analytical results are presented in the following report.

This report is revised to reflect additional analysis requested after the initial report was issued.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,

Craig Chawla

Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

# **STAT** Analysis Corporation

**Date:** June 15, 2010

**Client:** K-Plus Environmental, Inc.

Project: 17094, 5333 W. 25th St., Cicero, IL Work Order Sample Summary

**Lab Order:** 10050651

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	<b>Date Received</b>
10050651-001A	KP1A		5/25/2010 8:20:00 AM	5/25/2010
10050651-001B	KP1A		5/25/2010 8:20:00 AM	5/25/2010
10050651-002A	KP2A		5/25/2010 9:30:00 AM	5/25/2010
10050651-002B	KP2A		5/25/2010 9:30:00 AM	5/25/2010
10050651-003A	KP2B		5/25/2010 9:30:00 AM	5/25/2010
10050651-003B	KP2B		5/25/2010 9:30:00 AM	5/25/2010
10050651-004A	KP3A		5/25/2010 9:50:00 AM	5/25/2010
10050651-004B	KP3A		5/25/2010 9:50:00 AM	5/25/2010
10050651-005A	KP3B		5/25/2010 9:50:00 AM	5/25/2010
10050651-005B	KP3B		5/25/2010 9:50:00 AM	5/25/2010
10050651-006A	KP4A		5/25/2010 10:10:00 AM	5/25/2010
10050651-006B	KP4A		5/25/2010 10:10:00 AM	5/25/2010
10050651-007A	KP4B		5/25/2010 10:10:00 AM	5/25/2010
10050651-007B	KP4B		5/25/2010 10:10:00 AM	5/25/2010
10050651-008A	KP5A		5/25/2010	5/25/2010
10050651-008B	KP5A		5/25/2010	5/25/2010
10050651-009A	KP5B		5/25/2010	5/25/2010
10050651-009B	KP5B		5/25/2010	5/25/2010

## STAT Analysis Corporation

**Date:** June 15, 2010

**CLIENT:** K-Plus Environmental, Inc.

Project: 17094, 5333 W. 25th St., Cicero, IL CASE NARRATIVE

**Lab Order:** 10050651

Due to matrix interference, VOC results for samples KP2A (10050651-002) and KP5A (10050651-008) are reported from the medium level dilution (Methanol Extract).

The following constituents were identified in the samples listed below. Concentrations are estimated:

KP2A (10050651-002): Gasoline 235 mg/Kg KP3A (10050651-004): Mineral Spirits 56 mg/Kg KP4A (10050651-006): Mineral Spirits 37 mg/Kg KP5A (10050651-008): Mineral Spirits 55 mg/Kg

Due to the matrix, sample KP2A (10050651-002) had recovery for VOC surrogate compound, 4-Bromofluorobenzene, outside of control limits (111% recovery, QC Limits 63-110%). Recoveries for all other surrogates were within control limits.

Due to matrix interference sample KP5A (10050651-008) had recovery for VOC surrogate 4-Bromofluorobenzene outside of control limits (114% recovery, QC Limits 63-110%). Recoveries for all other surrogates were within control limits.

The MS/MSD prepared from sample KP5B (preparation batch 49612) had recoveries outside control limits. The sample, MS and MSD were redigested in batch 49636. Results reported from preparation batch 49636.

The metals serial dilution (SD) prepared from sample KP5B (10050651-009) had relative percent difference (RPD) outside of control limits for Arsenic (10.3% RPD, QC limits <10%).

## **STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

**Date Reported:** June 15, 2010 **Date Printed:** June 15, 2010

**Client:** K-Plus Environmental, Inc.

**Lab Order:** 10050651

**Project:** 17094, 5333 W. 25th St., Cicero, IL

**Lab ID:** 10050651-001

Client Sample ID: KP1A

**Collection Date**: 5/25/2010 8:20:00 AM

Matrix: Soil

Analyses	Result	RL Qı	ualifier Units	DF	Date Analyzed
Mercury	SW74	71A	Prep	Analyst: <b>VA</b>	
Mercury	ND	0.027	mg/Kg-dry	1	5/27/2010
Metals by ICP/MS	SW60	20 (SW3050I	B) Prep	Date: <b>5/28/2010</b>	Analyst: <b>JG</b>
Arsenic	3	1.1	mg/Kg-dry	10	5/28/2010
Barium	21	1.1	mg/Kg-dry	10	5/28/2010
Cadmium	ND	1.1	mg/Kg-dry	10	5/28/2010
Chromium	4.5	1.1	mg/Kg-dry	10	5/28/2010
Lead	7.8	0.54	mg/Kg-dry	10	5/28/2010
Selenium	ND	1.1	mg/Kg-dry	10	5/28/2010
Silver	ND	1.1	mg/Kg-dry	10	5/28/2010
Polynuclear Aromatic Hydrocarbons	SW82	270C-SIM (SV	<b>V3550B)</b> Prep	Date: <b>5/26/2010</b>	Analyst: <b>VS</b>
Acenaphthene	ND	0.027	mg/Kg-dry	1	5/28/2010
Acenaphthylene	ND	0.027	mg/Kg-dry	1	5/28/2010
Anthracene	ND	0.027	mg/Kg-dry	1	5/28/2010
Benz(a)anthracene	ND	0.027	mg/Kg-dry	1	5/28/2010
Benzo(a)pyrene	ND	0.027	mg/Kg-dry	1	5/28/2010
Benzo(b)fluoranthene	ND	0.027	mg/Kg-dry	1	5/28/2010
Benzo(g,h,i)perylene	ND	0.027	mg/Kg-dry	1	5/28/2010
Benzo(k)fluoranthene	ND	0.027	mg/Kg-dry	1	5/28/2010
Chrysene	ND	0.027	mg/Kg-dry	1	5/28/2010
Dibenz(a,h)anthracene	ND	0.027	mg/Kg-dry	1	5/28/2010
Fluoranthene	ND	0.027	mg/Kg-dry	1	5/28/2010
Fluorene	ND	0.027	mg/Kg-dry	1	5/28/2010
Indeno(1,2,3-cd)pyrene	ND	0.027	mg/Kg-dry	1	5/28/2010
Naphthalene	ND	0.027	mg/Kg-dry	1	5/28/2010
Phenanthrene	ND	0.027	mg/Kg-dry	1	5/28/2010
Pyrene	ND	0.027	mg/Kg-dry	1	5/28/2010
Volatile Organic Compounds by GC/MS	SW50	35/8260B	Prep	Analyst: ART	
Acetone	ND	0.085	mg/Kg-dry	1	5/29/2010
Benzene	ND	0.0056	mg/Kg-dry	1	5/29/2010
Bromodichloromethane	ND	0.0056	mg/Kg-dry	1	5/29/2010
Bromoform	ND	0.0056	mg/Kg-dry	1	5/29/2010
Bromomethane	ND	0.011	mg/Kg-dry	1	5/29/2010
2-Butanone	ND	0.085	mg/Kg-dry	1	5/29/2010
Carbon disulfide	ND	0.056	mg/Kg-dry	1	5/29/2010
Carbon tetrachloride	ND	0.0056	mg/Kg-dry	1	5/29/2010
Chlorobenzene	ND	0.0056	mg/Kg-dry	1	5/29/2010
Chloroethane	ND	0.011	mg/Kg-dry	1	5/29/2010

ND - Not Detected at the Reporting Limit

Qualifiers: J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: June 15, 2010

**Client:** K-Plus Environmental, Inc.

**Lab Order:** 10050651

**Project:** 17094, 5333 W. 25th St., Cicero, IL

**Lab ID:** 10050651-001

Client Sample ID: KP1A

**Collection Date**: 5/25/2010 8:20:00 AM

Matrix: Soil

Date Printed: June 15, 2010

Analyses	Result	RL	Qualifier Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW50	35/8260B	Prep	Date: <b>5/25/2010</b>	Analyst: <b>ART</b>
Chloroform	ND	0.0056	mg/Kg-dry	1	5/29/2010
Chloromethane	ND	0.011	mg/Kg-dry	1	5/29/2010
Dibromochloromethane	ND	0.0056	mg/Kg-dry	1	5/29/2010
1,1-Dichloroethane	ND	0.0056	mg/Kg-dry	1	5/29/2010
1,2-Dichloroethane	ND	0.0056	mg/Kg-dry	1	5/29/2010
1,1-Dichloroethene	ND	0.0056	mg/Kg-dry	1	5/29/2010
cis-1,2-Dichloroethene	ND	0.0056	mg/Kg-dry	1	5/29/2010
trans-1,2-Dichloroethene	ND	0.0056	mg/Kg-dry	1	5/29/2010
1,2-Dichloropropane	ND	0.0056	mg/Kg-dry	1	5/29/2010
cis-1,3-Dichloropropene	ND	0.0023	mg/Kg-dry	1	5/29/2010
trans-1,3-Dichloropropene	ND	0.0023	mg/Kg-dry	1	5/29/2010
Ethylbenzene	ND	0.0056	mg/Kg-dry	1	5/29/2010
2-Hexanone	ND	0.023	mg/Kg-dry	1	5/29/2010
4-Methyl-2-pentanone	ND	0.023	mg/Kg-dry	1	5/29/2010
Methylene chloride	ND	0.011	mg/Kg-dry	1	5/29/2010
Methyl tert-butyl ether	ND	0.0056	mg/Kg-dry	1	5/29/2010
Styrene	ND	0.0056	mg/Kg-dry	1	5/29/2010
1,1,2,2-Tetrachloroethane	ND	0.0056	mg/Kg-dry	1	5/29/2010
Tetrachloroethene	ND	0.0056	mg/Kg-dry	1	5/29/2010
Toluene	ND	0.0056	mg/Kg-dry	1	5/29/2010
1,1,1-Trichloroethane	ND	0.0056	mg/Kg-dry	1	5/29/2010
1,1,2-Trichloroethane	ND	0.0056	mg/Kg-dry	1	5/29/2010
Trichloroethene	ND	0.0056	mg/Kg-dry	1	5/29/2010
Vinyl chloride	ND	0.0056	mg/Kg-dry	1	5/29/2010
Xylenes, Total	ND	0.017	mg/Kg-dry	1	5/29/2010
Percent Moisture	D297	4	Prep	Date: 5/25/2010	Analyst: <b>JP</b>
Percent Moisture	9.2	0.2	* wt%	1	5/26/2010

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

Qualifiers:

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

**Date Reported:** June 15, 2010 **Date Printed:** June 15, 2010

**Client:** K-Plus Environmental, Inc.

10050651

**Project:** 17094, 5333 W. 25th St., Cicero, IL

**Lab ID:** 10050651-002

Lab Order:

Client Sample ID: KP2A

**Collection Date**: 5/25/2010 9:30:00 AM

Matrix: Soil

Analyses	Result	RL Q	ualifier Units	DF	Date Analyzed
Mercury	SW747	71A	Prep	Date: 5/26/2010	Analyst: <b>VA</b>
Mercury	ND	0.028	mg/Kg-dry	1	5/27/2010
Metals by ICP/MS	SW602	20 (SW3050	<b>)B)</b> Prep	Date: 5/28/2010	Analyst: <b>JG</b>
Arsenic	3.3	1.1	mg/Kg-dry	10	5/28/2010
Barium	57	1.1	mg/Kg-dry	10	5/28/2010
Cadmium	ND	1.1	mg/Kg-dry	10	5/28/2010
Chromium	16	1.1	mg/Kg-dry	10	5/28/2010
Lead	14	0.53	mg/Kg-dry	10	5/28/2010
Selenium	ND	1.1	mg/Kg-dry	10	5/28/2010
Silver	ND	1.1	mg/Kg-dry	10	5/28/2010
Polynuclear Aromatic Hydrocarbons	SW82	70C-SIM (S)	<b>W3550B)</b> Prep	Date: 5/26/2010	Analyst: VS
Acenaphthene	ND	0.03	mg/Kg-dry	1	5/28/2010
Acenaphthylene	ND	0.03	mg/Kg-dry	1	5/28/2010
Anthracene	ND	0.03	mg/Kg-dry	1	5/28/2010
Benz(a)anthracene	ND	0.03	mg/Kg-dry	1	5/28/2010
Benzo(a)pyrene	ND	0.03	mg/Kg-dry	1	5/28/2010
Benzo(b)fluoranthene	ND	0.03	mg/Kg-dry	1	5/28/2010
Benzo(g,h,i)perylene	ND	0.03	mg/Kg-dry	1	5/28/2010
Benzo(k)fluoranthene	ND	0.03	mg/Kg-dry	1	5/28/2010
Chrysene	ND	0.03	mg/Kg-dry	1	5/28/2010
Dibenz(a,h)anthracene	ND	0.03	mg/Kg-dry	1	5/28/2010
Fluoranthene	ND	0.03	mg/Kg-dry	1	5/28/2010
Fluorene	ND	0.03	mg/Kg-dry	1	5/28/2010
Indeno(1,2,3-cd)pyrene	ND	0.03	mg/Kg-dry	1	5/28/2010
Naphthalene	ND	0.03	mg/Kg-dry	1	5/28/2010
Phenanthrene	ND	0.03	mg/Kg-dry	1	5/28/2010
Pyrene	ND	0.03	mg/Kg-dry	1	5/28/2010
Volatile Organic Compounds by GC/MS	SW503	35/8260B	Prep	Date: 5/25/2010	Analyst: ART
Acetone	ND	3.9	mg/Kg-dry	50	5/29/2010
Benzene	ND	0.26	mg/Kg-dry	50	5/29/2010
Bromodichloromethane	ND	0.26	mg/Kg-dry	50	5/29/2010
Bromoform	ND	0.26	mg/Kg-dry	50	5/29/2010
Bromomethane	ND	0.53	mg/Kg-dry	50	5/29/2010
2-Butanone	ND	3.9	mg/Kg-dry	50	5/29/2010
Carbon disulfide	ND	2.6	mg/Kg-dry	50	5/29/2010
Carbon tetrachloride	ND	0.26	mg/Kg-dry	50	5/29/2010
Chlorobenzene	ND	0.26	mg/Kg-dry	50	5/29/2010
Chloroethane	ND	0.53	mg/Kg-dry	50	5/29/2010

ND - Not Detected at the Reporting Limit

Qualifiers: J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Accorditation Numbers: IEPA ELAP 100445: ORELAP IL 300001: AIHA 101160: NV

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

**Date Reported:** June 15, 2010 **Date Printed:** June 15, 2010

**Client:** K-Plus Environmental, Inc.

**Lab Order:** 10050651

**Project:** 17094, 5333 W. 25th St., Cicero, IL

**Lab ID:** 10050651-002

Client Sample ID: KP2A

**Collection Date**: 5/25/2010 9:30:00 AM

Matrix: Soil

Analyses	Result	RL	Qualifier Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW503	35/8260B	Prep	Date: <b>5/25/2010</b>	Analyst: <b>ART</b>
Chloroform	ND	0.26	mg/Kg-dry	50	5/29/2010
Chloromethane	ND	0.53	mg/Kg-dry	50	5/29/2010
Dibromochloromethane	ND	0.26	mg/Kg-dry	50	5/29/2010
1,1-Dichloroethane	ND	0.26	mg/Kg-dry	50	5/29/2010
1,2-Dichloroethane	ND	0.26	mg/Kg-dry	50	5/29/2010
1,1-Dichloroethene	ND	0.26	mg/Kg-dry	50	5/29/2010
cis-1,2-Dichloroethene	ND	0.26	mg/Kg-dry	50	5/29/2010
trans-1,2-Dichloroethene	ND	0.26	mg/Kg-dry	50	5/29/2010
1,2-Dichloropropane	ND	0.26	mg/Kg-dry	50	5/29/2010
cis-1,3-Dichloropropene	ND	0.11	mg/Kg-dry	50	5/29/2010
trans-1,3-Dichloropropene	ND	0.11	mg/Kg-dry	50	5/29/2010
Ethylbenzene	ND	0.26	mg/Kg-dry	50	5/29/2010
2-Hexanone	ND	1.1	mg/Kg-dry	50	5/29/2010
4-Methyl-2-pentanone	ND	1.1	mg/Kg-dry	50	5/29/2010
Methylene chloride	ND	0.53	mg/Kg-dry	50	5/29/2010
Methyl tert-butyl ether	ND	0.26	mg/Kg-dry	50	5/29/2010
Styrene	ND	0.26	mg/Kg-dry	50	5/29/2010
1,1,2,2-Tetrachloroethane	ND	0.26	mg/Kg-dry	50	5/29/2010
Tetrachloroethene	ND	0.26	mg/Kg-dry	50	5/29/2010
Toluene	ND	0.26	mg/Kg-dry	50	5/29/2010
1,1,1-Trichloroethane	ND	0.26	mg/Kg-dry	50	5/29/2010
1,1,2-Trichloroethane	ND	0.26	mg/Kg-dry	50	5/29/2010
Trichloroethene	ND	0.26	mg/Kg-dry	50	5/29/2010
Vinyl chloride	ND	0.26	mg/Kg-dry	50	5/29/2010
Xylenes, Total	ND	0.79	mg/Kg-dry	50	5/29/2010
Percent Moisture	D2974		Prep	Date: 5/25/2010	Analyst: <b>JP</b>
Percent Moisture	17.2	0.2	* wt%	1	5/26/2010

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

Qualifiers:

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

**Date Reported:** June 15, 2010 **Date Printed:** June 15, 2010

**Client:** K-Plus Environmental, Inc.

**Lab Order:** 10050651

**Project:** 17094, 5333 W. 25th St., Cicero, IL

**Lab ID:** 10050651-003

Client Sample ID: KP2B

**Collection Date**: 5/25/2010 9:30:00 AM

Matrix: Soil

Analyses	Result	RL (	Qualifier Units	DF	Date Analyzed
Mercury	SW74	71A	Prep	Date: 5/26/2010	Analyst: <b>VA</b>
Mercury	ND	0.028	mg/Kg-dry	1	5/27/2010
Metals by ICP/MS	SW60	20 (SW305	(0B) Prep	Date: 5/28/2010	Analyst: <b>JG</b>
Arsenic	4.8	1.1	mg/Kg-dry	10	5/28/2010
Barium	21	1.1	mg/Kg-dry	10	5/28/2010
Cadmium	ND	1.1	mg/Kg-dry	10	5/28/2010
Chromium	8.9	1.1	mg/Kg-dry	10	5/28/2010
Lead	8.4	0.57	mg/Kg-dry	10	5/28/2010
Selenium	ND	1.1	mg/Kg-dry	10	5/28/2010
Silver	ND	1.1	mg/Kg-dry	10	5/28/2010
Polynuclear Aromatic Hydrocarbons	SW82	70C-SIM (S	<b>SW3550B)</b> Prep	Date: 5/26/2010	Analyst: VS
Acenaphthene	0.035	0.029	mg/Kg-dry	1	5/28/2010
Acenaphthylene	ND	0.029	mg/Kg-dry	1	5/28/2010
Anthracene	ND	0.029	mg/Kg-dry	1	5/28/2010
Benz(a)anthracene	ND	0.029	mg/Kg-dry	1	5/28/2010
Benzo(a)pyrene	ND	0.029	mg/Kg-dry	1	5/28/2010
Benzo(b)fluoranthene	ND	0.029	mg/Kg-dry	1	5/28/2010
Benzo(g,h,i)perylene	ND	0.029	mg/Kg-dry	1	5/28/2010
Benzo(k)fluoranthene	ND	0.029	mg/Kg-dry	1	5/28/2010
Chrysene	ND	0.029	mg/Kg-dry	1	5/28/2010
Dibenz(a,h)anthracene	ND	0.029	mg/Kg-dry	1	5/28/2010
Fluoranthene	ND	0.029	mg/Kg-dry	1	5/28/2010
Fluorene	ND	0.029	mg/Kg-dry	1	5/28/2010
Indeno(1,2,3-cd)pyrene	ND	0.029	mg/Kg-dry	1	5/28/2010
Naphthalene	ND	0.029	mg/Kg-dry	1	5/28/2010
Phenanthrene	ND	0.029	mg/Kg-dry	1	5/28/2010
Pyrene	ND	0.029	mg/Kg-dry	1	5/28/2010
Volatile Organic Compounds by GC/MS	SW50	35/8260B	Prep	Date: 5/25/2010	Analyst: ART
Acetone	ND	0.075	mg/Kg-dry	1	5/29/2010
Benzene	ND	0.005	mg/Kg-dry	1	5/29/2010
Bromodichloromethane	ND	0.005	mg/Kg-dry	1	5/29/2010
Bromoform	ND	0.005	mg/Kg-dry	1	5/29/2010
Bromomethane	ND	0.01	mg/Kg-dry	1	5/29/2010
2-Butanone	ND	0.075	mg/Kg-dry	1	5/29/2010
Carbon disulfide	ND	0.05	mg/Kg-dry	1	5/29/2010
Carbon tetrachloride	ND	0.005	mg/Kg-dry	1	5/29/2010
Chlorobenzene	ND	0.005	mg/Kg-dry	1	5/29/2010
Chloroethane	ND	0.01	mg/Kg-dry	1	5/29/2010

ND - Not Detected at the Reporting Limit

Qualifiers: J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

**Date Reported:** June 15, 2010 **Date Printed:** June 15, 2010

**Client:** K-Plus Environmental, Inc.

**Lab Order:** 10050651

**Project:** 17094, 5333 W. 25th St., Cicero, IL

**Lab ID:** 10050651-003

Client Sample ID: KP2B

**Collection Date**: 5/25/2010 9:30:00 AM

Matrix: Soil

Analyses	Result	RL	Qualifier Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW50	35/8260B	Prep	Date: 5/25/2010	Analyst: <b>ART</b>
Chloroform	ND	0.005	mg/Kg-dry	1	5/29/2010
Chloromethane	ND	0.01	mg/Kg-dry	1	5/29/2010
Dibromochloromethane	ND	0.005	mg/Kg-dry	1	5/29/2010
1,1-Dichloroethane	ND	0.005	mg/Kg-dry	1	5/29/2010
1,2-Dichloroethane	ND	0.005	mg/Kg-dry	1	5/29/2010
1,1-Dichloroethene	ND	0.005	mg/Kg-dry	1	5/29/2010
cis-1,2-Dichloroethene	ND	0.005	mg/Kg-dry	1	5/29/2010
trans-1,2-Dichloroethene	ND	0.005	mg/Kg-dry	1	5/29/2010
1,2-Dichloropropane	ND	0.005	mg/Kg-dry	1	5/29/2010
cis-1,3-Dichloropropene	ND	0.002	mg/Kg-dry	1	5/29/2010
trans-1,3-Dichloropropene	ND	0.002	mg/Kg-dry	1	5/29/2010
Ethylbenzene	ND	0.005	mg/Kg-dry	1	5/29/2010
2-Hexanone	ND	0.02	mg/Kg-dry	1	5/29/2010
4-Methyl-2-pentanone	ND	0.02	mg/Kg-dry	1	5/29/2010
Methylene chloride	ND	0.01	mg/Kg-dry	1	5/29/2010
Methyl tert-butyl ether	ND	0.005	mg/Kg-dry	1	5/29/2010
Styrene	ND	0.005	mg/Kg-dry	1	5/29/2010
1,1,2,2-Tetrachloroethane	ND	0.005	mg/Kg-dry	1	5/29/2010
Tetrachloroethene	ND	0.005	mg/Kg-dry	1	5/29/2010
Toluene	ND	0.005	mg/Kg-dry	1	5/29/2010
1,1,1-Trichloroethane	ND	0.005	mg/Kg-dry	1	5/29/2010
1,1,2-Trichloroethane	ND	0.005	mg/Kg-dry	1	5/29/2010
Trichloroethene	ND	0.005	mg/Kg-dry	1	5/29/2010
Vinyl chloride	ND	0.005	mg/Kg-dry	1	5/29/2010
Xylenes, Total	ND	0.015	mg/Kg-dry	1	5/29/2010
Percent Moisture	D2974	ļ	Prep	Date: 5/25/2010	Analyst: <b>JP</b>
Percent Moisture	14.9	0.2	* wt%	1	5/26/2010

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

Qualifiers:

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

**Date Reported:** June 15, 2010 **Date Printed:** June 15, 2010

**Client:** K-Plus Environmental, Inc.

**Lab Order:** 10050651

**Project:** 17094, 5333 W. 25th St., Cicero, IL

**Lab ID:** 10050651-004

Client Sample ID: KP3A

**Collection Date**: 5/25/2010 9:50:00 AM

Matrix: Soil

Analyses	Result	RL	Qualifier Units	DF	Date Analyzed
Mercury	SW74	471A	Prep	Date: <b>5/26/20</b>	10 Analyst: VA
Mercury	ND	0.029	mg/Kg-dry	1	5/27/2010
Metals by ICP/MS	SW60	020 (SW30	<b>50B)</b> Prep	Date: <b>5/28/20</b>	10 Analyst: JG
Arsenic	6.4	1.2	mg/Kg-dry	10	5/28/2010
Barium	79	1.2	mg/Kg-dry	10	5/28/2010
Cadmium	ND	1.2	mg/Kg-dry	10	5/28/2010
Chromium	16	1.2	mg/Kg-dry	10	5/28/2010
Lead	21	0.58	mg/Kg-dry	10	5/28/2010
Selenium	ND	1.2	mg/Kg-dry	10	5/28/2010
Silver	ND	1.2	mg/Kg-dry	10	5/28/2010
Semivolatile Organic Compounds by GC/MS	SW8	270C-SIM (	( <b>SW3550B</b> ) Prep	Date: 5/26/20	10 Analyst: VS
Acenaphthene	ND	0.028	mg/Kg-dry	1	5/28/2010
Acenaphthylene	ND	0.028	mg/Kg-dry	1	5/28/2010
Anthracene	ND	0.028	mg/Kg-dry	1	5/28/2010
Benz(a)anthracene	ND	0.028	mg/Kg-dry	1	5/28/2010
Benzo(a)pyrene	ND	0.028	mg/Kg-dry	1	5/28/2010
Benzo(b)fluoranthene	ND	0.028	mg/Kg-dry	1	5/28/2010
Benzo(g,h,i)perylene	ND	0.028	mg/Kg-dry	1	5/28/2010
Benzo(k)fluoranthene	ND	0.028	mg/Kg-dry	1	5/28/2010
Chrysene	ND	0.028	mg/Kg-dry	1	5/28/2010
Dibenz(a,h)anthracene	ND	0.028	mg/Kg-dry	1	5/28/2010
Fluoranthene	ND	0.028	mg/Kg-dry	1	5/28/2010
Fluorene	ND	0.028	mg/Kg-dry	1	5/28/2010
Indeno(1,2,3-cd)pyrene	ND	0.028	mg/Kg-dry	1	5/28/2010
Naphthalene	ND	0.028	mg/Kg-dry	1	5/28/2010
Phenanthrene	ND	0.028	mg/Kg-dry	1	5/28/2010
Pyrene	ND	0.028	mg/Kg-dry	1	5/28/2010
N-Nitrosodi-n-propylamine	ND	0.028	mg/Kg-dry	1	5/28/2010
Pentachlorophenol	ND	0.028	mg/Kg-dry	1	5/28/2010
Semivolatile Organic Compounds by GC/MS	SW82	270C (SW3	<b>550B)</b> Prep	Date: 5/26/20	10 Analyst: DM
Aniline	ND	0.19	mg/Kg-dry	1	5/28/2010
Benzidine	ND	0.19	mg/Kg-dry	1	5/28/2010
Benzoic acid	ND	0.88	mg/Kg-dry	1	5/28/2010
Benzyl alcohol	ND	0.19	mg/Kg-dry	1	5/28/2010
Bis(2-chloroethoxy)methane	ND	0.19	mg/Kg-dry	1	5/28/2010
Bis(2-chloroethyl)ether	ND	0.19	mg/Kg-dry	1	5/28/2010
Bis(2-ethylhexyl)phthalate	ND	0.19	mg/Kg-dry	1	5/28/2010
4-Bromophenyl phenyl ether	ND	0.19	mg/Kg-dry	1	5/28/2010

ND - Not Detected at the Reporting Limit

Qualifiers: J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

**Date Reported:** June 15, 2010 **Date Printed:** June 15, 2010

**Client:** K-Plus Environmental, Inc.

10050651

**Project:** 17094, 5333 W. 25th St., Cicero, IL

**Lab ID:** 10050651-004

Lab Order:

**Client Sample ID:** KP3A

**Collection Date**: 5/25/2010 9:50:00 AM

Matrix: Soil

Analyses	Result	RL Qualific	er Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW8270C	(SW3550B)	•	Date: <b>5/26/2010</b>	Analyst: <b>DM</b>
Butyl benzyl phthalate	ND	0.19	mg/Kg-dry	1	5/28/2010
Carbazole	ND	0.19	mg/Kg-dry	1	5/28/2010
4-Chloroaniline	ND	0.19	mg/Kg-dry	1	5/28/2010
4-Chloro-3-methylphenol	ND	0.19	mg/Kg-dry	1	5/28/2010
2-Chloronaphthalene	ND	0.19	mg/Kg-dry	1	5/28/2010
2-Chlorophenol	ND	0.19	mg/Kg-dry	1	5/28/2010
4-Chlorophenyl phenyl ether	ND	0.19	mg/Kg-dry	1	5/28/2010
Dibenzofuran	ND	0.19	mg/Kg-dry	1	5/28/2010
1,2-Dichlorobenzene	ND	0.19	mg/Kg-dry	1	5/28/2010
1,3-Dichlorobenzene	ND	0.19	mg/Kg-dry	1	5/28/2010
1,4-Dichlorobenzene	ND	0.19	mg/Kg-dry	1	5/28/2010
3,3´-Dichlorobenzidine	ND	0.36	mg/Kg-dry	1	5/28/2010
2,4-Dichlorophenol	ND	0.19	mg/Kg-dry	1	5/28/2010
Diethyl phthalate	ND	0.19	mg/Kg-dry	1	5/28/2010
2,4-Dimethylphenol	ND	0.19	mg/Kg-dry	1	5/28/2010
Dimethyl phthalate	ND	0.19	mg/Kg-dry	1	5/28/2010
4,6-Dinitro-2-methylphenol	ND	0.88	mg/Kg-dry	1	5/28/2010
2,4-Dinitrophenol	ND	0.88	mg/Kg-dry	1	5/28/2010
2,4-Dinitrotoluene	ND	0.19	mg/Kg-dry	1	5/28/2010
2,6-Dinitrotoluene	ND	0.19	mg/Kg-dry	1	5/28/2010
Di-n-butyl phthalate	ND	0.19	mg/Kg-dry	1	5/28/2010
Di-n-octyl phthalate	ND	0.19	mg/Kg-dry	1	5/28/2010
Hexachlorobenzene	ND	0.19	mg/Kg-dry	1	5/28/2010
Hexachlorobutadiene	ND	0.19	mg/Kg-dry	1	5/28/2010
Hexachlorocyclopentadiene	ND	0.19	mg/Kg-dry	1	5/28/2010
Hexachloroethane	ND	0.19	mg/Kg-dry	1	5/28/2010
Isophorone	ND	0.19	mg/Kg-dry	1	5/28/2010
2-Methylnaphthalene	ND	0.19	mg/Kg-dry	1	5/28/2010
2-Methylphenol	ND	0.19	mg/Kg-dry	1	5/28/2010
4-Methylphenol	ND	0.19	mg/Kg-dry	1	5/28/2010
2-Nitroaniline	ND	0.88	mg/Kg-dry	1	5/28/2010
3-Nitroaniline	ND	0.88	mg/Kg-dry	1	5/28/2010
4-Nitroaniline	ND	0.88	mg/Kg-dry	1	5/28/2010
2-Nitrophenol	ND	0.19	mg/Kg-dry	1	5/28/2010
4-Nitrophenol	ND	0.88	mg/Kg-dry	1	5/28/2010
Nitrobenzene	ND	0.19	mg/Kg-dry	1	5/28/2010
N-Nitrosodimethylamine	ND	0.19	mg/Kg-dry	1	5/28/2010
N-Nitrosodiphenylamine	ND	0.19	mg/Kg-dry	1	5/28/2010

ND - Not Detected at the Reporting Limit

Qualifiers: J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

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E - Value above quantitation range

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

**Date Reported:** June 15, 2010 **Date Printed:** June 15, 2010

**Client:** K-Plus Environmental, Inc.

10050651

**Project:** 17094, 5333 W. 25th St., Cicero, IL

**Lab ID:** 10050651-004

Lab Order:

Client Sample ID: KP3A

**Collection Date**: 5/25/2010 9:50:00 AM

Matrix: Soil

Analyses	Result	RL (	Qualifier Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	SW82	70C (SW35	<b>50B)</b> Prep	Date: <b>5/26/2010</b>	Analyst: <b>DM</b>
2, 2'-oxybis(1-Chloropropane)	ND	0.19	mg/Kg-dry	1	5/28/2010
Phenol	ND	0.19	mg/Kg-dry	1	5/28/2010
Pyridine	ND	0.19	mg/Kg-dry	1	5/28/2010
1,2,4-Trichlorobenzene	ND	0.19	mg/Kg-dry	1	5/28/2010
2,4,5-Trichlorophenol	ND	0.36	mg/Kg-dry	1	5/28/2010
2,4,6-Trichlorophenol	ND	0.19	mg/Kg-dry	1	5/28/2010
Volatile Organic Compounds by GC/MS	SW50	35/8260B	Prep	Date: <b>5/25/2010</b>	Analyst: ART
Acetone	ND	0.073	mg/Kg-dry	1	5/29/2010
Benzene	ND	0.0049	mg/Kg-dry	1	5/29/2010
Bromodichloromethane	ND	0.0049	mg/Kg-dry	1	5/29/2010
Bromoform	ND	0.0049	mg/Kg-dry	1	5/29/2010
Bromomethane	ND	0.0097	mg/Kg-dry	1	5/29/2010
2-Butanone	ND	0.073	mg/Kg-dry	1	5/29/2010
Carbon disulfide	ND	0.049	mg/Kg-dry	1	5/29/2010
Carbon tetrachloride	ND	0.0049	mg/Kg-dry	1	5/29/2010
Chlorobenzene	ND	0.0049	mg/Kg-dry	1	5/29/2010
Chloroethane	ND	0.0097	mg/Kg-dry	1	5/29/2010
Chloroform	ND	0.0049	mg/Kg-dry	1	5/29/2010
Chloromethane	ND	0.0097	mg/Kg-dry	1	5/29/2010
Dibromochloromethane	ND	0.0049	mg/Kg-dry	1	5/29/2010
1,1-Dichloroethane	ND	0.0049	mg/Kg-dry	1	5/29/2010
1,2-Dichloroethane	ND	0.0049	mg/Kg-dry	1	5/29/2010
1,1-Dichloroethene	ND	0.0049	mg/Kg-dry	1	5/29/2010
cis-1,2-Dichloroethene	ND	0.0049	mg/Kg-dry	1	5/29/2010
trans-1,2-Dichloroethene	ND	0.0049	mg/Kg-dry	1	5/29/2010
1,2-Dichloropropane	ND	0.0049	mg/Kg-dry	1	5/29/2010
cis-1,3-Dichloropropene	ND	0.0019	mg/Kg-dry	1	5/29/2010
trans-1,3-Dichloropropene	ND	0.0019	mg/Kg-dry	1	5/29/2010
Ethylbenzene	ND	0.0049	mg/Kg-dry	1	5/29/2010
2-Hexanone	ND	0.019	mg/Kg-dry	1	5/29/2010
4-Methyl-2-pentanone	ND	0.019	mg/Kg-dry	1	5/29/2010
Methylene chloride	ND	0.0097	mg/Kg-dry	1	5/29/2010
Methyl tert-butyl ether	ND	0.0049	mg/Kg-dry	1	5/29/2010
Styrene	ND	0.0049	mg/Kg-dry	1	5/29/2010
1,1,2,2-Tetrachloroethane	ND	0.0049	mg/Kg-dry	1	5/29/2010
Tetrachloroethene	ND	0.0049	mg/Kg-dry	1	5/29/2010
Toluene	ND	0.0049	mg/Kg-dry	1	5/29/2010
1,1,1-Trichloroethane	ND	0.0049	mg/Kg-dry	1	5/29/2010

ND - Not Detected at the Reporting Limit

Qualifiers: J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

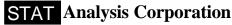
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range



Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

**Date Reported:** June 15, 2010 **Date Printed:** June 15, 2010

**Client:** K-Plus Environmental, Inc.

**Lab Order:** 10050651

**Project:** 17094, 5333 W. 25th St., Cicero, IL

**Lab ID:** 10050651-004

Client Sample ID: KP3A

**Collection Date**: 5/25/2010 9:50:00 AM

Matrix: Soil

Analyses	Result	RL	Qualifier U	Jnits	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW5	035/8260B		Prep	Date: 5/25/201	O Analyst: ART
1,1,2-Trichloroethane	ND	0.0049	mg/	/Kg-dry	1	5/29/2010
Trichloroethene	ND	0.0049	mg/	/Kg-dry	1	5/29/2010
Vinyl chloride	ND	0.0049	mg/	/Kg-dry	1	5/29/2010
Xylenes, Total	ND	0.015	mg/	/Kg-dry	1	5/29/2010
Percent Moisture	D297	4		Prep	Date: 5/25/201	O Analyst: JP
Percent Moisture	17.8	0.2	* V	wt%	1	5/26/2010

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

Qualifiers:

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

**Date Reported:** June 15, 2010 **Date Printed:** June 15, 2010

Client: K-Plus Environmental, Inc.

**Lab Order:** 10050651

**Project:** 17094, 5333 W. 25th St., Cicero, IL

**Lab ID:** 10050651-005

Client Sample ID: KP3B

**Collection Date**: 5/25/2010 9:50:00 AM

Matrix: Soil

Analyses	Result	RL (	Qualifier Units	DF	Date Analyzed
Mercury	SW74	71A	Prep	Date: 5/26/2010	Analyst: <b>VA</b>
Mercury	ND	0.028	mg/Kg-dry	1	5/27/2010
Metals by ICP/MS	SW60	20 (SW305	50B) Prep	Date: 5/28/2010	Analyst: <b>JG</b>
Arsenic	11	1.1	mg/Kg-dry	10	5/28/2010
Barium	55	1.1	mg/Kg-dry	10	5/28/2010
Cadmium	ND	1.1	mg/Kg-dry	10	5/28/2010
Chromium	14	1.1	mg/Kg-dry	10	5/28/2010
Lead	16	0.54	mg/Kg-dry	10	5/28/2010
Selenium	ND	1.1	mg/Kg-dry	10	5/28/2010
Silver	ND	1.1	mg/Kg-dry	10	5/28/2010
Polynuclear Aromatic Hydrocarbons	SW82	70C-SIM (	SW3550B) Prep	Date: 5/26/2010	Analyst: <b>VS</b>
Acenaphthene	ND	0.028	mg/Kg-dry	1	5/28/2010
Acenaphthylene	ND	0.028	mg/Kg-dry	1	5/28/2010
Anthracene	ND	0.028	mg/Kg-dry	1	5/28/2010
Benz(a)anthracene	ND	0.028	mg/Kg-dry	1	5/28/2010
Benzo(a)pyrene	ND	0.028	mg/Kg-dry	1	5/28/2010
Benzo(b)fluoranthene	ND	0.028	mg/Kg-dry	1	5/28/2010
Benzo(g,h,i)perylene	ND	0.028	mg/Kg-dry	1	5/28/2010
Benzo(k)fluoranthene	ND	0.028	mg/Kg-dry	1	5/28/2010
Chrysene	ND	0.028	mg/Kg-dry	1	5/28/2010
Dibenz(a,h)anthracene	ND	0.028	mg/Kg-dry	1	5/28/2010
Fluoranthene	ND	0.028	mg/Kg-dry	1	5/28/2010
Fluorene	ND	0.028	mg/Kg-dry	1	5/28/2010
Indeno(1,2,3-cd)pyrene	ND	0.028	mg/Kg-dry	1	5/28/2010
Naphthalene	ND	0.028	mg/Kg-dry	1	5/28/2010
Phenanthrene	ND	0.028	mg/Kg-dry	1	5/28/2010
Pyrene	ND	0.028	mg/Kg-dry	1	5/28/2010
Volatile Organic Compounds by GC/MS	SW50	35/8260B	Prep	Date: 5/25/2010	Analyst: ART
Acetone	ND	0.055	mg/Kg-dry	1	5/29/2010
Benzene	ND	0.0037	mg/Kg-dry	1	5/29/2010
Bromodichloromethane	ND	0.0037	mg/Kg-dry	1	5/29/2010
Bromoform	ND	0.0037	mg/Kg-dry	1	5/29/2010
Bromomethane	ND	0.0073	mg/Kg-dry	1	5/29/2010
2-Butanone	ND	0.055	mg/Kg-dry	1	5/29/2010
Carbon disulfide	ND	0.037	mg/Kg-dry	1	5/29/2010
Carbon tetrachloride	ND	0.0037	mg/Kg-dry	1	5/29/2010
Chlorobenzene	ND	0.0037	mg/Kg-dry	1	5/29/2010
Chloroethane	ND	0.0073	mg/Kg-dry	1	5/29/2010

ND - Not Detected at the Reporting Limit

Qualifiers: J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

**Date Reported:** June 15, 2010 **Date Printed:** June 15, 2010

**Client:** K-Plus Environmental, Inc.

**Lab Order:** 10050651

**Project:** 17094, 5333 W. 25th St., Cicero, IL

**Lab ID:** 10050651-005

**Client Sample ID:** KP3B

**Collection Date**: 5/25/2010 9:50:00 AM

Matrix: Soil

Analyses	Result	RL	Qualifier Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW50	35/8260B	Prep	Date: 5/25/2010	Analyst: <b>ART</b>
Chloroform	ND	0.0037	mg/Kg-dry	1	5/29/2010
Chloromethane	ND	0.0073	mg/Kg-dry	1	5/29/2010
Dibromochloromethane	ND	0.0037	mg/Kg-dry	1	5/29/2010
1,1-Dichloroethane	ND	0.0037	mg/Kg-dry	1	5/29/2010
1,2-Dichloroethane	ND	0.0037	mg/Kg-dry	1	5/29/2010
1,1-Dichloroethene	ND	0.0037	mg/Kg-dry	1	5/29/2010
cis-1,2-Dichloroethene	ND	0.0037	mg/Kg-dry	1	5/29/2010
trans-1,2-Dichloroethene	ND	0.0037	mg/Kg-dry	1	5/29/2010
1,2-Dichloropropane	ND	0.0037	mg/Kg-dry	1	5/29/2010
cis-1,3-Dichloropropene	ND	0.0015	mg/Kg-dry	1	5/29/2010
trans-1,3-Dichloropropene	ND	0.0015	mg/Kg-dry	1	5/29/2010
Ethylbenzene	ND	0.0037	mg/Kg-dry	1	5/29/2010
2-Hexanone	ND	0.015	mg/Kg-dry	1	5/29/2010
4-Methyl-2-pentanone	ND	0.015	mg/Kg-dry	1	5/29/2010
Methylene chloride	ND	0.0073	mg/Kg-dry	1	5/29/2010
Methyl tert-butyl ether	ND	0.0037	mg/Kg-dry	1	5/29/2010
Styrene	ND	0.0037	mg/Kg-dry	1	5/29/2010
1,1,2,2-Tetrachloroethane	ND	0.0037	mg/Kg-dry	1	5/29/2010
Tetrachloroethene	ND	0.0037	mg/Kg-dry	1	5/29/2010
Toluene	ND	0.0037	mg/Kg-dry	1	5/29/2010
1,1,1-Trichloroethane	ND	0.0037	mg/Kg-dry	1	5/29/2010
1,1,2-Trichloroethane	ND	0.0037	mg/Kg-dry	1	5/29/2010
Trichloroethene	ND	0.0037	mg/Kg-dry	1	5/29/2010
Vinyl chloride	ND	0.0037	mg/Kg-dry	1	5/29/2010
Xylenes, Total	ND	0.011	mg/Kg-dry	1	5/29/2010
Percent Moisture	D297	4	Prep	Date: 5/25/2010	Analyst: <b>JP</b>
Percent Moisture	12.3	0.2	* wt%	1	5/26/2010

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

Qualifiers:

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

**Date Reported:** June 15, 2010 **Date Printed:** June 15, 2010

**Client:** K-Plus Environmental, Inc.

10050651

**Project:** 17094, 5333 W. 25th St., Cicero, IL

**Lab ID:** 10050651-006

Lab Order:

Client Sample ID: KP4A

**Collection Date**: 5/25/2010 10:10:00 AM

Matrix: Soil

Analyses	Result	RL Qual	lifier Units	DF	Date Analyzed
Mercury	SW74	71A	Prep	Date: <b>5/26/2010</b>	Analyst: VA
Mercury	ND	0.028	mg/Kg-dry	1	5/27/2010
Metals by ICP/MS	SW60	20 (SW3050B)	Prep	Date: 5/28/2010	Analyst: <b>JG</b>
Arsenic	3.7	1.2	mg/Kg-dry	10	5/28/2010
Barium	79	1.2	mg/Kg-dry	10	5/28/2010
Cadmium	ND	1.2	mg/Kg-dry	10	5/28/2010
Chromium	16	1.2	mg/Kg-dry	10	5/28/2010
Lead	14	0.6	mg/Kg-dry	10	5/28/2010
Selenium	ND	1.2	mg/Kg-dry	10	5/28/2010
Silver	ND	1.2	mg/Kg-dry	10	5/28/2010
Polynuclear Aromatic Hydrocarbons	SW82	70C-SIM (SW3	<b>550B)</b> Prep	Date: 5/26/2010	Analyst: <b>VS</b>
Acenaphthene	ND	0.03	mg/Kg-dry	1	5/28/2010
Acenaphthylene	ND	0.03	mg/Kg-dry	1	5/28/2010
Anthracene	ND	0.03	mg/Kg-dry	1	5/28/2010
Benz(a)anthracene	ND	0.03	mg/Kg-dry	1	5/28/2010
Benzo(a)pyrene	ND	0.03	mg/Kg-dry	1	5/28/2010
Benzo(b)fluoranthene	ND	0.03	mg/Kg-dry	1	5/28/2010
Benzo(g,h,i)perylene	ND	0.03	mg/Kg-dry	1	5/28/2010
Benzo(k)fluoranthene	ND	0.03	mg/Kg-dry	1	5/28/2010
Chrysene	ND	0.03	mg/Kg-dry	1	5/28/2010
Dibenz(a,h)anthracene	ND	0.03	mg/Kg-dry	1	5/28/2010
Fluoranthene	ND	0.03	mg/Kg-dry	1	5/28/2010
Fluorene	ND	0.03	mg/Kg-dry	1	5/28/2010
Indeno(1,2,3-cd)pyrene	ND	0.03	mg/Kg-dry	1	5/28/2010
Naphthalene	ND	0.03	mg/Kg-dry	1	5/28/2010
Phenanthrene	ND	0.03	mg/Kg-dry	1	5/28/2010
Pyrene	ND	0.03	mg/Kg-dry	1	5/28/2010
Volatile Organic Compounds by GC/MS	SW50	35/8260B	Prep	Date: 5/25/2010	Analyst: ART
Acetone	ND	0.071	mg/Kg-dry	1	5/29/2010
Benzene	ND	0.0047	mg/Kg-dry	1	5/29/2010
Bromodichloromethane	ND	0.0047	mg/Kg-dry	1	5/29/2010
Bromoform	ND	0.0047	mg/Kg-dry	1	5/29/2010
Bromomethane	ND	0.0095	mg/Kg-dry	1	5/29/2010
2-Butanone	ND	0.071	mg/Kg-dry	1	5/29/2010
Carbon disulfide	ND	0.047	mg/Kg-dry	1	5/29/2010
Carbon tetrachloride	ND	0.0047	mg/Kg-dry	1	5/29/2010
Chlorobenzene	ND	0.0047	mg/Kg-dry	1	5/29/2010
Chloroethane	ND	0.0095	mg/Kg-dry	1	5/29/2010

ND - Not Detected at the Reporting Limit

Qualifiers: J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

**Date Reported:** June 15, 2010 **Date Printed:** June 15, 2010

**Client:** K-Plus Environmental, Inc.

**Lab Order:** 10050651

**Project:** 17094, 5333 W. 25th St., Cicero, IL

**Lab ID:** 10050651-006

Client Sample ID: KP4A

**Collection Date**: 5/25/2010 10:10:00 AM

Matrix: Soil

Analyses	Result	RL	Qualifier Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW50	35/8260B	Prep	Date: <b>5/25/2010</b>	Analyst: <b>ART</b>
Chloroform	ND	0.0047	mg/Kg-dry	1	5/29/2010
Chloromethane	ND	0.0095	mg/Kg-dry	1	5/29/2010
Dibromochloromethane	ND	0.0047	mg/Kg-dry	1	5/29/2010
1,1-Dichloroethane	ND	0.0047	mg/Kg-dry	1	5/29/2010
1,2-Dichloroethane	ND	0.0047	mg/Kg-dry	1	5/29/2010
1,1-Dichloroethene	ND	0.0047	mg/Kg-dry	1	5/29/2010
cis-1,2-Dichloroethene	ND	0.0047	mg/Kg-dry	1	5/29/2010
trans-1,2-Dichloroethene	ND	0.0047	mg/Kg-dry	1	5/29/2010
1,2-Dichloropropane	ND	0.0047	mg/Kg-dry	1	5/29/2010
cis-1,3-Dichloropropene	ND	0.0019	mg/Kg-dry	1	5/29/2010
trans-1,3-Dichloropropene	ND	0.0019	mg/Kg-dry	1	5/29/2010
Ethylbenzene	ND	0.0047	mg/Kg-dry	1	5/29/2010
2-Hexanone	ND	0.019	mg/Kg-dry	1	5/29/2010
4-Methyl-2-pentanone	ND	0.019	mg/Kg-dry	1	5/29/2010
Methylene chloride	ND	0.0095	mg/Kg-dry	1	5/29/2010
Methyl tert-butyl ether	ND	0.0047	mg/Kg-dry	1	5/29/2010
Styrene	ND	0.0047	mg/Kg-dry	1	5/29/2010
1,1,2,2-Tetrachloroethane	ND	0.0047	mg/Kg-dry	1	5/29/2010
Tetrachloroethene	ND	0.0047	mg/Kg-dry	1	5/29/2010
Toluene	ND	0.0047	mg/Kg-dry	1	5/29/2010
1,1,1-Trichloroethane	ND	0.0047	mg/Kg-dry	1	5/29/2010
1,1,2-Trichloroethane	ND	0.0047	mg/Kg-dry	1	5/29/2010
Trichloroethene	ND	0.0047	mg/Kg-dry	1	5/29/2010
Vinyl chloride	ND	0.0047	mg/Kg-dry	1	5/29/2010
Xylenes, Total	ND	0.014	mg/Kg-dry	1	5/29/2010
Percent Moisture	D2974	4	Prep	Date: 5/25/2010	Analyst: <b>JP</b>
Percent Moisture	17.2	0.2	* wt%	1	5/26/2010

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

Qualifiers:

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766 Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

**Date Reported:** June 15, 2010 **Date Printed:** June 15, 2010

**Client:** K-Plus Environmental, Inc.

**Lab Order:** 10050651

**Project:** 17094, 5333 W. 25th St., Cicero, IL

**Lab ID:** 10050651-007

Client Sample ID: KP4B

**Collection Date**: 5/25/2010 10:10:00 AM

Matrix: Soil

Mercury         ND         0.028         mg/Kg-dry         1         5/2           Metals by ICP/MS         SW6020 (SW3050B)         Prep Date: 5/28/2010         Analogo Ana	Analyzed
Mercury         ND         0.028         mg/Kg-dry         1         5/2           Metals by ICP/MS         SW6020 (SW3050B)         Prep Date: 5/28/2010         Analogo Analogo           Arsenic         17         1.1         mg/Kg-dry         10         5/2           Barium         78         1.1         mg/Kg-dry         10         5/2           Cadmium         ND         1.1         mg/Kg-dry         10         5/2           Chromium         17         1.1         mg/Kg-dry         10         5/2           Lead         30         0.53         mg/Kg-dry         10         5/2           Selenium         ND         1.1         mg/Kg-dry         10         5/2           Silver         ND         1.1         mg/Kg-dry         10         5/2	alyst: <b>VA</b>
Arsenic       17       1.1       mg/Kg-dry       10       5/2         Barium       78       1.1       mg/Kg-dry       10       5/2         Cadmium       ND       1.1       mg/Kg-dry       10       5/2         Chromium       17       1.1       mg/Kg-dry       10       5/2         Lead       30       0.53       mg/Kg-dry       10       5/2         Selenium       ND       1.1       mg/Kg-dry       10       5/2         Silver       ND       1.1       mg/Kg-dry       10       5/2	27/2010
Arsenic       17       1.1       mg/Kg-dry       10       5/2         Barium       78       1.1       mg/Kg-dry       10       5/2         Cadmium       ND       1.1       mg/Kg-dry       10       5/2         Chromium       17       1.1       mg/Kg-dry       10       5/2         Lead       30       0.53       mg/Kg-dry       10       5/2         Selenium       ND       1.1       mg/Kg-dry       10       5/2         Silver       ND       1.1       mg/Kg-dry       10       5/2	alyst: <b>JG</b>
Cadmium         ND         1.1         mg/Kg-dry         10         5/2           Chromium         17         1.1         mg/Kg-dry         10         5/2           Lead         30         0.53         mg/Kg-dry         10         5/2           Selenium         ND         1.1         mg/Kg-dry         10         5/2           Silver         ND         1.1         mg/Kg-dry         10         5/2	28/2010
Chromium         17         1.1         mg/Kg-dry         10         5/2           Lead         30         0.53         mg/Kg-dry         10         5/2           Selenium         ND         1.1         mg/Kg-dry         10         5/2           Silver         ND         1.1         mg/Kg-dry         10         5/2	28/2010
Lead       30       0.53       mg/Kg-dry       10       5/2         Selenium       ND       1.1       mg/Kg-dry       10       5/2         Silver       ND       1.1       mg/Kg-dry       10       5/2	28/2010
Selenium         ND         1.1         mg/Kg-dry         10         5/2           Silver         ND         1.1         mg/Kg-dry         10         5/2	28/2010
Silver         ND         1.1         mg/Kg-dry         10         5/2	28/2010
3 3 4 ,	28/2010
	28/2010
Polynuclear Aromatic Hydrocarbons SW8270C-SIM (SW3550B) Prep Date: 5/26/2010 And	alyst: <b>VS</b>
Acenaphthene ND 0.029 mg/Kg-dry 1 5/2	28/2010
Acenaphthylene ND 0.029 mg/Kg-dry 1 5/2	28/2010
Anthracene ND 0.029 mg/Kg-dry 1 5/2	28/2010
Benz(a)anthracene ND 0.029 mg/Kg-dry 1 5/2	28/2010
Benzo(a)pyrene ND 0.029 mg/Kg-dry 1 5/2	28/2010
Benzo(b)fluoranthene ND 0.029 mg/Kg-dry 1 5/2	28/2010
Benzo(g,h,i)perylene ND 0.029 mg/Kg-dry 1 5/2	28/2010
Benzo(k)fluoranthene ND 0.029 mg/Kg-dry 1 5/2	28/2010
Chrysene ND 0.029 mg/Kg-dry 1 5/2	28/2010
Dibenz(a,h)anthracene ND 0.029 mg/Kg-dry 1 5/2	28/2010
Fluoranthene ND 0.029 mg/Kg-dry 1 5/2	28/2010
Fluorene ND 0.029 mg/Kg-dry 1 5/2	28/2010
Indeno(1,2,3-cd)pyrene ND 0.029 mg/Kg-dry 1 5/2	28/2010
Naphthalene ND 0.029 mg/Kg-dry 1 5/2	28/2010
Phenanthrene ND 0.029 mg/Kg-dry 1 5/2	28/2010
Pyrene ND 0.029 mg/Kg-dry 1 5/2	28/2010
Volatile Organic Compounds by GC/MS SW5035/8260B Prep Date: 5/25/2010 Ana	alyst: ART
Acetone ND 0.073 mg/Kg-dry 1 5/3	30/2010
Benzene ND 0.0048 mg/Kg-dry 1 5/3	30/2010
Bromodichloromethane ND 0.0048 mg/Kg-dry 1 5/3	30/2010
Bromoform ND 0.0048 mg/Kg-dry 1 5/3	30/2010
	30/2010
2-Butanone ND 0.073 mg/Kg-dry 1 5/3	30/2010
	30/2010
	30/2010
Chloroethane ND 0.0097 mg/Kg-dry 1 5/3	30/2010

ND - Not Detected at the Reporting Limit

Qualifiers: J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

**Date Reported:** June 15, 2010 **Date Printed:** June 15, 2010

**Client:** K-Plus Environmental, Inc.

10050651

**Project:** 17094, 5333 W. 25th St., Cicero, IL

**Lab ID:** 10050651-007

Lab Order:

**Client Sample ID:** KP4B

**Collection Date**: 5/25/2010 10:10:00 AM

Matrix: Soil

Analyses	Result	RL	Qualifier Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW50	35/8260B	Prep	Date: 5/25/2010	Analyst: <b>ART</b>
Chloroform	ND	0.0048	mg/Kg-dry	1	5/30/2010
Chloromethane	ND	0.0097	mg/Kg-dry	1	5/30/2010
Dibromochloromethane	ND	0.0048	mg/Kg-dry	1	5/30/2010
1,1-Dichloroethane	ND	0.0048	mg/Kg-dry	1	5/30/2010
1,2-Dichloroethane	ND	0.0048	mg/Kg-dry	1	5/30/2010
1,1-Dichloroethene	ND	0.0048	mg/Kg-dry	1	5/30/2010
cis-1,2-Dichloroethene	ND	0.0048	mg/Kg-dry	1	5/30/2010
trans-1,2-Dichloroethene	ND	0.0048	mg/Kg-dry	1	5/30/2010
1,2-Dichloropropane	ND	0.0048	mg/Kg-dry	1	5/30/2010
cis-1,3-Dichloropropene	ND	0.0019	mg/Kg-dry	1	5/30/2010
trans-1,3-Dichloropropene	ND	0.0019	mg/Kg-dry	1	5/30/2010
Ethylbenzene	ND	0.0048	mg/Kg-dry	1	5/30/2010
2-Hexanone	ND	0.019	mg/Kg-dry	1	5/30/2010
4-Methyl-2-pentanone	ND	0.019	mg/Kg-dry	1	5/30/2010
Methylene chloride	ND	0.0097	mg/Kg-dry	1	5/30/2010
Methyl tert-butyl ether	ND	0.0048	mg/Kg-dry	1	5/30/2010
Styrene	ND	0.0048	mg/Kg-dry	1	5/30/2010
1,1,2,2-Tetrachloroethane	ND	0.0048	mg/Kg-dry	1	5/30/2010
Tetrachloroethene	ND	0.0048	mg/Kg-dry	1	5/30/2010
Toluene	ND	0.0048	mg/Kg-dry	1	5/30/2010
1,1,1-Trichloroethane	ND	0.0048	mg/Kg-dry	1	5/30/2010
1,1,2-Trichloroethane	ND	0.0048	mg/Kg-dry	1	5/30/2010
Trichloroethene	ND	0.0048	mg/Kg-dry	1	5/30/2010
Vinyl chloride	ND	0.0048	mg/Kg-dry	1	5/30/2010
Xylenes, Total	ND	0.015	mg/Kg-dry	1	5/30/2010
Percent Moisture	D297	4	Prep	Date: 5/25/2010	Analyst: <b>JP</b>
Percent Moisture	13.6	0.2	* wt%	1	5/26/2010

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

Qualifiers:

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: June 15, 2010 Date Printed: June 15, 2010

Client:	K-Plus Environmental, Inc.	Client Sample ID: KP5A
Lab Order:	10050651	Collection Date: 5/25/2010
Project:	17094, 5333 W. 25th St., Cicero, IL	Matrix: Soil
Lab ID:	10050651-008	Wittin. Son

Analyses	Result	RL	Qualifier Units	DF	Date Analyzed
Mercury	SW74	71A	Prep	Date: 5/26/2010	Analyst: <b>VA</b>
Mercury	ND	0.034	mg/Kg-dry	1	5/27/2010
Metals by ICP/MS	SW60	20 (SW30	<b>)50B)</b> Prep	Date: 5/28/2010	Analyst: <b>JG</b>
Arsenic	4.9	1.3	mg/Kg-dry	10	5/28/2010
Barium	120	1.3	mg/Kg-dry	10	5/28/2010
Cadmium	ND	1.3	mg/Kg-dry	10	5/28/2010
Chromium	23	1.3	mg/Kg-dry	10	5/28/2010
Lead	16	0.66	mg/Kg-dry	10	5/28/2010
Selenium	ND	1.3	mg/Kg-dry	10	5/28/2010
Silver	ND	1.3	mg/Kg-dry	10	5/28/2010
Polynuclear Aromatic Hydrocarbons	SW82	70C-SIM	(SW3550B) Prep	Date: 5/26/2010	Analyst: VS
Acenaphthene	ND	0.036	mg/Kg-dry	1	5/28/2010
Acenaphthylene	ND	0.036	mg/Kg-dry	1	5/28/2010
Anthracene	ND	0.036	mg/Kg-dry	1	5/28/2010
Benz(a)anthracene	ND	0.036	mg/Kg-dry	1	5/28/2010
Benzo(a)pyrene	ND	0.036	mg/Kg-dry	1	5/28/2010
Benzo(b)fluoranthene	ND	0.036	mg/Kg-dry	1	5/28/2010
Benzo(g,h,i)perylene	ND	0.036	mg/Kg-dry	1	5/28/2010
Benzo(k)fluoranthene	ND	0.036	mg/Kg-dry	1	5/28/2010
Chrysene	ND	0.036	mg/Kg-dry	1	5/28/2010
Dibenz(a,h)anthracene	ND	0.036	mg/Kg-dry	1	5/28/2010
Fluoranthene	ND	0.036	mg/Kg-dry	1	5/28/2010
Fluorene	ND	0.036	mg/Kg-dry	1	5/28/2010
Indeno(1,2,3-cd)pyrene	ND	0.036	mg/Kg-dry	1	5/28/2010
Naphthalene	0.044	0.036	mg/Kg-dry	1	5/28/2010
Phenanthrene	ND	0.036	mg/Kg-dry	1	5/28/2010
Pyrene	ND	0.036	mg/Kg-dry	1	5/28/2010
Volatile Organic Compounds by GC/MS	SW50	35/8260B	Prep	Date: 5/25/2010	Analyst: <b>EJH</b>
Acetone	ND	5.7	mg/Kg-dry	50	5/30/2010
Benzene	ND	0.38	mg/Kg-dry	50	5/30/2010
Bromodichloromethane	ND	0.38	mg/Kg-dry	50	5/30/2010
Bromoform	ND	0.38	mg/Kg-dry	50	5/30/2010
Bromomethane	ND	0.75	mg/Kg-dry	50	5/30/2010
2-Butanone	ND	5.7	mg/Kg-dry	50	5/30/2010
Carbon disulfide	ND	3.8	mg/Kg-dry	50	5/30/2010
Carbon tetrachloride	ND	0.38	mg/Kg-dry	50	5/30/2010
Chlorobenzene	ND	0.38	mg/Kg-dry	50	5/30/2010
Chloroethane	ND	0.75	mg/Kg-dry	50	5/30/2010

ND - Not Detected at the Reporting Limit

Qualifiers: J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL -  $Reporting\ /\ Quantitation\ Limit\ for\ the\ analysis$ 

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

**Date Reported:** June 15, 2010 **Date Printed:** June 15, 2010

**Client:** K-Plus Environmental, Inc.

**Lab Order:** 10050651

**Project:** 17094, 5333 W. 25th St., Cicero, IL

**Lab ID:** 10050651-008

Client Sample ID: KP5A
Collection Date: 5/25/2010
Matrix: Soil

Analyses	Result	RL	Qualifier Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW503	35/8260B	Prep	Date: 5/25/2010	Analyst: <b>EJH</b>
Chloroform	ND	0.38	mg/Kg-dry	50	5/30/2010
Chloromethane	ND	0.75	mg/Kg-dry	50	5/30/2010
Dibromochloromethane	ND	0.38	mg/Kg-dry	50	5/30/2010
1,1-Dichloroethane	ND	0.38	mg/Kg-dry	50	5/30/2010
1,2-Dichloroethane	ND	0.38	mg/Kg-dry	50	5/30/2010
1,1-Dichloroethene	ND	0.38	mg/Kg-dry	50	5/30/2010
cis-1,2-Dichloroethene	ND	0.38	mg/Kg-dry	50	5/30/2010
trans-1,2-Dichloroethene	ND	0.38	mg/Kg-dry	50	5/30/2010
1,2-Dichloropropane	ND	0.38	mg/Kg-dry	50	5/30/2010
cis-1,3-Dichloropropene	ND	0.15	mg/Kg-dry	50	5/30/2010
trans-1,3-Dichloropropene	ND	0.15	mg/Kg-dry	50	5/30/2010
Ethylbenzene	ND	0.38	mg/Kg-dry	50	5/30/2010
2-Hexanone	ND	1.5	mg/Kg-dry	50	5/30/2010
4-Methyl-2-pentanone	ND	1.5	mg/Kg-dry	50	5/30/2010
Methylene chloride	ND	0.75	mg/Kg-dry	50	5/30/2010
Methyl tert-butyl ether	ND	0.38	mg/Kg-dry	50	5/30/2010
Styrene	ND	0.38	mg/Kg-dry	50	5/30/2010
1,1,2,2-Tetrachloroethane	ND	0.38	mg/Kg-dry	50	5/30/2010
Tetrachloroethene	ND	0.38	mg/Kg-dry	50	5/30/2010
Toluene	ND	0.38	mg/Kg-dry	50	5/30/2010
1,1,1-Trichloroethane	ND	0.38	mg/Kg-dry	50	5/30/2010
1,1,2-Trichloroethane	ND	0.38	mg/Kg-dry	50	5/30/2010
Trichloroethene	ND	0.38	mg/Kg-dry	50	5/30/2010
Vinyl chloride	ND	0.38	mg/Kg-dry	50	5/30/2010
Xylenes, Total	ND	1.1	mg/Kg-dry	50	5/30/2010
Percent Moisture	D2974		Prep	Date: 5/25/2010	Analyst: <b>JP</b>
Percent Moisture	30.8	0.2	* wt%	1	5/26/2010

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

Qualifiers:

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

**Date Reported:** June 15, 2010 **Date Printed:** June 15, 2010

**Client:** K-Plus Environmental, Inc.

**Lab Order:** 10050651

**Project:** 17094, 5333 W. 25th St., Cicero, IL

**Lab ID:** 10050651-009

Client Sample ID: KP5B
Collection Date: 5/25/2010
Matrix: Soil

Analyses	Result	RL (	Qualifier Units	DF	Date Analyzed
Mercury	SW74	71A	Prep	Date: 5/26/2010	Analyst: VA
Mercury	ND	0.029	mg/Kg-dry	1	5/27/2010
Metals by ICP/MS	SW60	20 (SW305	(60B) Prep	Date: 5/28/2010	Analyst: <b>JG</b>
Arsenic	7.7	1.2	mg/Kg-dry	10	6/1/2010
Barium	59	1.2	mg/Kg-dry	10	6/1/2010
Cadmium	ND	0.59	mg/Kg-dry	10	6/1/2010
Chromium	20	1.2	mg/Kg-dry	10	6/1/2010
Lead	16	0.59	mg/Kg-dry	10	6/1/2010
Selenium	ND	1.2	mg/Kg-dry	10	6/1/2010
Silver	ND	1.2	mg/Kg-dry	10	6/1/2010
Polynuclear Aromatic Hydrocarbons	SW82	270C-SIM (S	<b>SW3550B)</b> Prep	Date: 5/26/2010	Analyst: <b>VS</b>
Acenaphthene	ND	0.03	mg/Kg-dry	1	5/28/2010
Acenaphthylene	ND	0.03	mg/Kg-dry	1	5/28/2010
Anthracene	ND	0.03	mg/Kg-dry	1	5/28/2010
Benz(a)anthracene	ND	0.03	mg/Kg-dry	1	5/28/2010
Benzo(a)pyrene	ND	0.03	mg/Kg-dry	1	5/28/2010
Benzo(b)fluoranthene	ND	0.03	mg/Kg-dry	1	5/28/2010
Benzo(g,h,i)perylene	ND	0.03	mg/Kg-dry	1	5/28/2010
Benzo(k)fluoranthene	ND	0.03	mg/Kg-dry	1	5/28/2010
Chrysene	ND	0.03	mg/Kg-dry	1	5/28/2010
Dibenz(a,h)anthracene	ND	0.03	mg/Kg-dry	1	5/28/2010
Fluoranthene	ND	0.03	mg/Kg-dry	1	5/28/2010
Fluorene	ND	0.03	mg/Kg-dry	1	5/28/2010
Indeno(1,2,3-cd)pyrene	ND	0.03	mg/Kg-dry	1	5/28/2010
Naphthalene	ND	0.03	mg/Kg-dry	1	5/28/2010
Phenanthrene	ND	0.03	mg/Kg-dry	1	5/28/2010
Pyrene	ND	0.03	mg/Kg-dry	1	5/28/2010
Volatile Organic Compounds by GC/MS	SW50	35/8260B	Prep	Date: 5/25/2010	Analyst: ART
Acetone	ND	0.073	mg/Kg-dry	1	5/30/2010
Benzene	ND	0.0048	mg/Kg-dry	1	5/30/2010
Bromodichloromethane	ND	0.0048	mg/Kg-dry	1	5/30/2010
Bromoform	ND	0.0048	mg/Kg-dry	1	5/30/2010
Bromomethane	ND	0.0097	mg/Kg-dry	1	5/30/2010
2-Butanone	ND	0.073	mg/Kg-dry	1	5/30/2010
Carbon disulfide	ND	0.048	mg/Kg-dry	1	5/30/2010
Carbon tetrachloride	ND	0.0048	mg/Kg-dry	1	5/30/2010
Chlorobenzene	ND	0.0048	mg/Kg-dry	1	5/30/2010
Chloroethane	ND	0.0048	mg/Kg-dry	1	5/30/2010

ND - Not Detected at the Reporting Limit

Qualifiers: J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

**Date Reported:** June 15, 2010 **Date Printed:** June 15, 2010

**Client:** K-Plus Environmental, Inc.

**Lab Order:** 10050651

**Project:** 17094, 5333 W. 25th St., Cicero, IL

**Lab ID:** 10050651-009

Client Sample ID: KP5B
Collection Date: 5/25/2010
Matrix: Soil

Analyses	Result	RL	Qualifier Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	SW50	35/8260B	Prep	Date: 5/25/2010	Analyst: <b>ART</b>
Chloroform	ND	0.0048	mg/Kg-dry	1	5/30/2010
Chloromethane	ND	0.0097	mg/Kg-dry	1	5/30/2010
Dibromochloromethane	ND	0.0048	mg/Kg-dry	1	5/30/2010
1,1-Dichloroethane	ND	0.0048	mg/Kg-dry	1	5/30/2010
1,2-Dichloroethane	ND	0.0048	mg/Kg-dry	1	5/30/2010
1,1-Dichloroethene	ND	0.0048	mg/Kg-dry	1	5/30/2010
cis-1,2-Dichloroethene	ND	0.0048	mg/Kg-dry	1	5/30/2010
trans-1,2-Dichloroethene	ND	0.0048	mg/Kg-dry	1	5/30/2010
1,2-Dichloropropane	ND	0.0048	mg/Kg-dry	1	5/30/2010
cis-1,3-Dichloropropene	ND	0.0019	mg/Kg-dry	1	5/30/2010
trans-1,3-Dichloropropene	ND	0.0019	mg/Kg-dry	1	5/30/2010
Ethylbenzene	ND	0.0048	mg/Kg-dry	1	5/30/2010
2-Hexanone	ND	0.019	mg/Kg-dry	1	5/30/2010
4-Methyl-2-pentanone	ND	0.019	mg/Kg-dry	1	5/30/2010
Methylene chloride	ND	0.0097	mg/Kg-dry	1	5/30/2010
Methyl tert-butyl ether	ND	0.0048	mg/Kg-dry	1	5/30/2010
Styrene	ND	0.0048	mg/Kg-dry	1	5/30/2010
1,1,2,2-Tetrachloroethane	ND	0.0048	mg/Kg-dry	1	5/30/2010
Tetrachloroethene	ND	0.0048	mg/Kg-dry	1	5/30/2010
Toluene	ND	0.0048	mg/Kg-dry	1	5/30/2010
1,1,1-Trichloroethane	ND	0.0048	mg/Kg-dry	1	5/30/2010
1,1,2-Trichloroethane	ND	0.0048	mg/Kg-dry	1	5/30/2010
Trichloroethene	ND	0.0048	mg/Kg-dry	1	5/30/2010
Vinyl chloride	ND	0.0048	mg/Kg-dry	1	5/30/2010
Xylenes, Total	ND	0.015	mg/Kg-dry	1	5/30/2010
Percent Moisture	D297	4	Prep	Date: 5/25/2010	Analyst: <b>JP</b>
Percent Moisture	17.5	0.2	* wt%	1	5/26/2010

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

Qualifiers:

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

STAT Analysis Corporation
2242 W. Harrison, Sulve 200. Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfota STATA and viscom AIHA, NYLAP and NELAP accredited

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### Sample Receipt Checklist

Client Name K-PLUS				Date and Tim	ne Received:	5/25/2010 11:25:00 AM
Work Order Number 10050651		-		Received by:	CDF	1 -1 -
Checklist completed by:  Signature	Date	5/20	5/10	Revievied by	Initials	5 25 10 Date
Matrix:	Carrier name:	Clier	nt Delivered			
Shipping container/cooler in good condition	on?	Yes	<b>✓</b>	N'o [	Not Present	
Custody seals intact on shippping contain	er/cooler?	Yes		№ □	Not Present	₩.
Custody seals intact on sample bottles?		Yes		№ 🗌	Not Present	<b>J</b>
Chain of custody present?		Yes	~	No 🗔		
Chain of custody signed when relinquishe	d and received?	Yes	<b>✓</b>	No. 🗀		
Chain of custody agrees with sample labe	els/containers?	Yes	<b>✓</b>	No 🗔		
Samples in proper container/bottle?		Yes	<b>Y</b>	No 🗌		
Sample containers intact?		Yes	<b>✓</b>	No 🗀 <sup>s</sup>		
Sufficient sample volume for indicated tes	it?	Yes	<b>Y</b>	No 🖂		
All samples received within holding time?		Yes	<b>✓</b>	No 🗀		1
Container or Temp Blank temperature in o	compliance?	Yes	✓.	No 🗌	Temper	ature 5.1 °C
Water - VOA vials have zero headspace?	No VOA vials subn	nitted		Yes 🖺	No 🗌	
Water - Samples pH checked?		Yes		No 🗔	Ohecked by:	· ·
Water - Samples properly preserved?		Yes		No 🗔	pH Adjusted?	eg i
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Any No response must be detailed in the	comments section below.					
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# APPENDIX 5 INSPECTOR QUALIFICATIONS

Title: Sr. Project Manager

Years Experience: 10+

#### Education:

BS, Environmental Health Sciences, Illinois State University, Normal, IL

AHERA Building Inspector: IL

OSHA 40 Hour Hazardous Waste Training

OSHA 8-hour Hazardous Waste Training Refresher

Erosion and Sediment Control Course 8-hour AIA Registered.

#### SUMMARY OF EXPERIENCE

Mrs. Madsen combines scientific expertise and business management skills to meet the due diligence needs for a variety of clients in a professional, time efficient and cost effective manner. Her educational training, project management experience, and communication skills provide a solid foundation to meet the environmental consulting needs of a diverse client base, including customers in banking, real estate development, government and industrial settings. At K-Plus, Ms. Madsen provides her customers with the tools required to make productive environmental decisions.

Ms. Madsen has been in the environmental consulting industry for at least the past ten years, which has cultivated a deep understanding of environmental issues within a business-conscious framework. During her tenure, she has developed outstanding research, field work, data interpretation, technical writing and communication skills, and has been recognized in scientific, government and business publications. Her training includes a bachelors degree in environmental sciences from Illinois State University, where her studies included courses in; Environmental Health Practices, Health Data Analysis, Water Quality and Treatment, Waste Management Practices, Environmental Toxicology, Food Protection, Control of Institutional Environments, Pollution Prevention, Occupational Health, Epidemiology, Decision Processes, as well as, complete courses of study in Chemistry, Physics, Geology, Human Anatomy and Physiology and Biology. Ms. Madsen's extensive curriculum has provided her with a broad base of technical scientific knowledge.

Since becoming an environmental professional, Ms. Madsen has conducted a variety of local and international site assessment activities, including property inspections (Phase I ESAs, TSAs, Phase I Updates and compliance assessments), soil and groundwater investigations, storage tank removals, abandonments and remediation activities. In connection with these tasks, Ms. Madsen has demonstrated her acute technical abilities by designing statistical analyses (including averaging and composite techniques) and modeling contaminant transport patterns, which has allowed her to successfully design and manage site closures in accordance with current federal, state and local environmental regulations.

#### REPRESENTATIVE EXPERIENCE

Spill Response Remediation and Restoration, Rancho Cordova, CA. Project Manager for the environmental remediation of a large tract of land contaminated by a spill of PCB-contaminated oil. Because the contamination was on private property not owned by the responsible party, the cleanup objective for the work was total removal of all contamination. Mrs. Madsen directed all onsite removal and restoration activities that were completed. All work was completed on an expedited schedule over a holiday weekend.



- Resident Engineer to manage and direct the final phase of an environmental clean up of a former industrial site adjacent to Illinois River. Work involved the testing and removal of soil contaminated by pesticides, followed by site restoration. K-Plus worked under the supervision of the Illinois EPA during the cleanup effort.
- SRP Site Closure, Industrial Facility, Skokie, IL. Leaking tanks identified at an adjacent parcel migrated off-site. An extensive subsurface investigation was completed to determine the horizontal and vertical extents of the soil and ground water contamination. During the investigation, secondary surficial soil contamination was identified on the site due to spillage or dumping from the former adhesives manufacturing operations. The site was closed following fate and transport modeling. The closure was achieved with minimal cost to the owner by utilizing land restriction and an engineered barrier and without any active remedial activities. Upon review, the IEPA issued a No Further Remediation (NFR) letter for the property.
- Leaking Underground Storage Tank Program, Commercial Facility, Melrose Park, IL. During an environmental assessment of the property, it was determined that the prior use of the property was a gasoline station. Following a magnetometer survey that suggested tanks were still present at the property, Mrs. Madsen directed the removal and destruction of the tanks. During removal activities it was determined that one or more of the tanks had experienced a leak, therefore a Leaking Underground Storage Tank (LUST) incident number was obtained and all affected soils were removed from the property. The site was cleaned to Illinois residential property standards and the Illinois EPA issued a NFR letter with no restrictions.
- Environmental and Erosion Control Manager. Mrs. Madsen worked with Walsh Construction on their North-South Tollway Expansion Project. Mrs. Madsen worked with the Illinois Tollway alongside numerous Agency representatives to organize and protect the sensitive wetland species, as well as, the Hine's Emerald Dragonfly (endangered), identified in the Des Plaines River Valley during the construction of the I-355 Bridge through Lemont, Illinois. The project included the design and implementation of a Maintenance Plan, Environmental-Safety Discussion, Dust Control Plan, Pollution Control Plan, as well as, the implement of the Erosion Control Plan, which was prepared and approved by the IEPA, in coordination with the local Agencies.
- National Marine, Wetland Monitoring and Ecological Assessment. This project was located on the Illinois River within a flood plain. The site contained forested and wetland areas and a variety of vegetation and wildlife. Mrs. Madsen, Project Scientist, was responsible for performing site characterization and water quality investigations and evaluations. Assisted with the natural resource assessments and monitoring. Performed soil, surface water and groundwater sampling. Completed draft reports for submittal to the USEPA under CERCLA.





- Federal Agency Experience. Mrs. Madsen has worked on numerous Phase I Environmental Site Assessments for potential cellular tower sites located throughout the Midwest. As part of these projects Mrs. Madsen was required to complete full NEPA screens on these properties in order to receive a Finding of No Significant Impact (FONSI) letter from the FAA.
- National Experience. Mrs. Madsen has traveled to other states in order to conduct Phase II Subsurface Investigations such as: New York, Michigan, Indiana and Texas. With the Subsurface Investigations in foreign states it is necessary to comply with the local state or USEPA regulations, especially when looking at the analysis of lab data. Mrs. Madsen has conducted the research behind the regulations, in order to learn acceptable chemical limits for the soils in each of these states, as well as, completed detailed technical reports which meet those state regulations.

Title: President

Years Experience: 25

#### **Education:**

MM, Finance and Managerial Economics, J.L. Kellogg Graduate School of Management, Northwestern University

MPH, Industrial Hygiene and Safety Engineering, University of Illinois at Chicago

**BS**, Civil Engineering, University of Illinois

Professional Engineer: IL, IN, IA, FL, KY, MI, MN,MO, OH, NC, OH, PA, and WI,

AHERA Building Inspector: IL and IN

LUST Site Assessor: WI and IN

OSHA 40 Hour Hazardous Waste Training

OSHA 8-hour On-site Management & Supervisor Training

HM-126F Safe HazMat Transportation Training

Radon Detection Services

Corrective Actions for Ground Water Contamination

#### **SUMMARY OF EXPERIENCE**

Mr. Caplice is a licensed professional engineer in 13 states with 25 years of environmental engineering and consulting experience. He has an in-depth understanding of local, state and federal regulations and has performed projects in accordance with CERCLA, RCRA, CWA/Oil Pollution Act, CAA, and TSCA requirements. His specialized areas of expertise are evaluation of contaminated properties, assessment of risk and endangerment, regulatory compliance and permitting, hazardous waste management, industrial processes, Brownfield development, water quality, and site management including investigation, remediation, construction management, and monitoring.

Currently Mr. Caplice is President of K-Plus Environmental, a 15 year-old, full service environmental engineering and consulting company with offices in Illinois, Indiana, Wisconsin, North Carolina, South Carolina, and Colorado. As President, Mr. Caplice is responsible for managing and directing the company in addition to his ongoing work.

Prior to joining K-Plus, Mr. Caplice served in several capacities for the USEPA, Region 5, including Manager of the Illinois/Indiana Unit of the Remedial Response Section, Waste Management Division and Manager of the Pre-Remedial Unit, Waste Management Division. As Manager of the Pre-Remedial Unit, Mr. Caplice investigated and assessed abandoned waste sites (CERCLIS sites) for possible inclusion on the National Priorities List. As Manager of the Illinois/Indiana Unit he supervised eight project managers in the technical and legal aspects of site investigation and remediation and he directed the progress at over 40 Superfund sites. As an RPM/OSC he was responsible for the investigation, alternative selection, design, implementation, and enforcement of cleanups at numerous Superfund sites including the Outboard Marine/Waukegan Harbor site, the LaSalle Electric Utilities, Tar Lake, and Verona Well Field. Mr. Caplice also regularly represented the USEPA at the International Joint Commission on Water Quality in the Great Lakes.

#### REPRESENTATIVE EXPERIENCE

#### **Private Clients**

- NAMPAC. Ontario, California. Responsible for assessing and remediating petroleum and chlorinated solvent contamination in soil and groundwater beneath an active plastic manufacturing facility. Developed a plan to stage the cleanup over an 18 month period in order to completely remediate the subsurface contamination to residential objectives without shutting down the facility operations. Developed all project documents including work plans, site assessment reports, remedial design plans, bid specifications, and remedial action completion reports. Met all the requirements of the LARWOCB for site closure.
- Rhodia. Chicago Heights, Illinois. Mr. Caplice directed the removal of phosphorous from a municipal sewer line after the extremely hazardous substance was identified in the sediments during the attempted cleaning of



the nearly one mile long line. The phosphorous contamination was apparently caused by historic operations at the Rhodia facility that ceased over 50 years beforehand. Because white phosphorous ignites and burns on contact with air, all work was completed either under water or under a nitrogen blanket to prevent spontaneous combustion. Upon completion of the removal and sewer cleaning, all waste was shipped to Sauget, Illinois where it was destroyed in a commercial incinerator.

- Yacht Haven Hotel. St. Thomas, U.S. Virgin Islands. PRM Realty. Responsible the remediation of asbestos contamination in a complex that was damaged by hurricane and scheduled for demolition and redevelopment. Designed an abatement and demolition program that called for the controlled demolition of the structure, waste segregation, off-site shipment and off-island disposal of asbestos masonry components, on-site crushing of non-asbestos components, and re-use of crushed materials. The project was complicated by rules prohibiting disposal of contaminated waste on the island as well as working adjacent to the water in the main ocean port for the island.
- INX. Charlotte, SC. Took over the design of new ink manufacturing plant after the original engineering firm was fired for failure to complete work on a timely basis. Work included the revision of existing P&ID and general arrangement drawings, completion of process piping drawings, revision of existing equipment list. Preparation of a pipe line index based upon the P&ID's and piping drawings, completion of line size calculations for all piping, and review and approval of all mechanical contractor submittals for process equipment. In addition, all provided technical oversight and management during construction by answering questions from the contractors and completing routine site visits to review the progress of the work and to review schedule and goals with the contractor.
- Chemical Plant. Chicago, IL, Provided regular environmental compliance advice to plant personnel to ensure operations are in strict compliance with all applicable environmental rules, regulations, and requirements. In addition to RCRA and CERCLA issues, Mr. Caplice was also called on to be the lead person during the cleanup and investigation following two spills at the plant. Mr. Caplice also evaluated historic operations at the plant that used contaminated raw materials. In that role, he designed and managed the implementation of the controlled decontamination and demolition of three former chemical production lines and ancillary equipment at the facility that were found to be grossly contaminated with an extremely hazardous substance.
- National Marine Industrial Site. Seneca, Illinois. American Commercial Barge Lines. Following an NPL Site Assessment by the IEPA of this abandoned facility, the project was transferred to the USEPA Region 5's Emergency Response Section as a non-time critical emergency removal site for cleanup, investigation, and oversight. The 65 acre site located adjacent to the Illinois River was contaminated with PCBs, solvents, pesticides, and lead. Mr. Caplice was responsible for managing all tasks associated with the



completion of the Phase I ESA and II ESAs, Site Investigation, Quality Assurance Plan, Remedial Design/Feasibility Analysis, groundwater monitoring, and Emergency Response, and three stages of Remedial Action. He managed the subcontractor agreements, permitting, sampling, testing, and negotiations and coordination with the Agency. He also developed engineering cost estimates for each remedial alternative and evaluated the feasibility of each. A portion of the remedial action included closing three waste treatment lagoons adjacent to the River, on site stabilization of contaminated soil and sludge, installation of slurry walls and engineered caps, and restoration of a forested area. Work was performed in accordance with CERCLA/RCRA/CWA/NCP Caplice requirements. Mr. responsible for negotiating remedial objectives and closure requirements with the USEPA and IEPA, and at the end of the Project he obtained a complete release from the USEPA and a Comprehensive NFR letter for the entire site from the IEPA.

- R. Lavin & Sons. North Chicago, Illinois. R. Deutsch, Levy & Engel (2004). Worked as the environmental consultant for the Creditors Committee following the closure of this secondary foundry. Due to this large industrial facility's location near a waterway, the USEPA, IEPA, NSSD, and the U.S. Navy were concerned that material remaining on site would impact surface waters. Facility had numerous issues including exposed piles of slag, pits and tanks containing up to 1.5 million gallons of process water and 2 million gallons of contaminated storm water. Served as expert witness in US Bankruptcy court proceedings, negotiated AOC scope of work with USEPA and DOJ representatives, managed site investigations and remedial action in accordance with RCRA/CERCLA and NCP requirements.
- Chicago Service. Bedford Park, Illinois. Millennium Chemical. This abandoned 15 acre industrial complex large site included five high bay industrial buildings; several ASTs and USTs; over 400 55-gallon unlabeled drums of process chemicals and industrial waste; over 40 in ground pits filled with oil, sludge, and debris; large shot blast equipment; industrial degreasers; and several areas where open dumping of waste had occurred Upon completion of a ESA, Mr. Caplice managed and directed the abatement of asbestos within the buildings, the characterization and disposal of all 55-gallon drums and other discarded process chemicals and industrial waste at the facility, the cleaning and closure of all in-ground pits a detailed subsurface investigation of soil and ground water contamination at the property, and the proper removal and closure of all USTs and ASTs at the property. All LUST incidents were properly closed in full compliance and the site was enrolled into the voluntary Site Remediation Program. Mr. Caplice then prepared full documentation of all remedial and investigative activities at the site and submitted the documentation to the IEPA in order to fulfill Illinois closure requirements and obtain multiple NFR letters documenting the successful completion of the work. Contaminants at the facility included BETX, PNAs, chlorinated solvents and breakdown compounds, and various metals.



- Rhodia, Chicago Heights, Dalton, and Blue Island, Illinois. Mr. Caplice has been providing ongoing environmental compliance support and management service to the Chicagoland chemical manufacturing facilities for Rhodia. Services include RCRA reporting, annual hazardous waste reports, SPCC Plans, SWPP Plans, Tier I and Tier II Reports, and Toxic Release Inventory (TRI) Reports.
- Bowling Products Manufacturer. Lake Bluff Forest, Illinois. DBA Products. Managed the Site Investigation (Phase II ESA) to evaluate the extent of chlorinated solvent contamination in soil and groundwater; performed a remedial investigation/feasibility study; conducted pre-design investigations, developed an engineering evaluation and cost estimate for remedial alternatives, and provided construction management, sampling and documentation during the remedial action. Remediation consisted of a combination of technologies, low temperature thermal desorption and a gravity-fed groundwater collection system. Secured a Comprehensive NFR letter via the IEPA's SRP program.
- Caterair, Inc.. Franklin Park, Illinois. Managed the investigation and cleanup of a large industrial site near O'Hare Airport. Mr. Caplice directed all investigative and cleanup activities and completed all LUST Program and Reimbursement requirements including early action documentation, site investigations, and corrective action (excavation, removal, and risk evaluation) activities. First consultant to receive maximum \$1 million reimbursement approval from the IEPA.
- **S & C Electric Company,** Chicago, Illinois. Responsible for completing the RCRA Contingency Plan and SPCCC plan for industrial facility. Also reviewed air permits and completed CAA reporting requirements. Inspected all particle sources and prepared a Fugitive Dust Control Plan.
- McCook Metals, McCook, Illinois. Provided environmental compliance services for operations at this 3 million square foot industrial facility. Work included NPDES monitoring and reporting; MWRD sampling, monitoring, and reporting; annual air emission reports; various Title V compliance reports; and annual hazardous waste reports. Also directed the removal of unused underground storage tanks at the facility and prepared the required LUST compliance reports to document the proper closure. Upon shut-down of the facility, worked with the Bankruptcy Trustee to characterize the remaining environmental liabilities at the site, monitor and direct asbestos abatement activities, and negotiate with MWRD and IEPA officials regarding the closure of the NPDES and DA permits.
- Armoloy of Illinois, Inc. DeKalb, Illinois. Managed all annual environmental reporting (Form R, Tier II, TRI, and annual Hazardous Waste Report) and permits (FESOP, state operating permits, and annual emissions reports) for this industrial plating facility.



■ TC Industries Inc. Crystal lake, Illinois. TC Industries Inc. is one of the largest heat treating facilities in the country. Mr. Caplice managed and directed a Phase I ESA and Compliance Audit of the facility. He also conducted permit reviews (Title V, NPDES, and industrial discharge permitting) for this 600,000 square foot manufacturing plant which included a waste water discharge pre-treatment facility.

#### Municipalities and Other Government Agencies

- Phase I ESAs and NEPA Documentation. Numerous Airports and aviation facilities in IN, IL, WI, and MI. Federal Aviation Administration. Program Manager responsible for managing the Phase I ESAs and NEPA Environmental Assessments conducted for airport properties located in Illinois, Michigan, Indiana, and Wisconsin that were owed and/or leased by the FAA for LLWAS, Visual Omni Range with Tactical Air Navigation (VORTAC), and Remote Transmitter/Receiver (RTR) equipment sites.
- Supply Side Landfill Monitoring. NAV FAC Midwest. Great Lakes Naval Facility Performed monthly monitoring of numerous wells and the adjacent stream on the property to fulfill landfill permit requirements. Routinely performed landfill inspections to identify leachate seeps, breaches to the cap and any other abnormality. Completed quarterly reports to the IEPA. Work was completed in accordance with project quality control manual. Completed an alternative analysis and engineering estimates for repairing the landfill cap and some ongoing issues with the landfill.
- LaSalle Electric Utility. USEPA Region 5.. Managed the Remedial RI/FS (Investigation/Feasibility Study) of this NPL site in LaSalle, Illinois in order to determine the extent of PCB contamination in the residential neighborhood adjacent to the abandoned electrical equipment manufacturer. After writing the Record of Decision that was approved in Region 5 and in Washington and signed by the Regional Administrator, directed the design of the selected remedial alternative that included construction of an incinerator on the site of the former facility, the excavation of contaminated soil from a four block area of a residential neighborhood, relocation of 20 families from their homes during the project, cleaning of the homes in the area. Work included the in-depth and detailed planning and community relations required to gain 100 percent community acceptance of the selected alternative and the plans, and then restoration of the area.
- Outboard Marine Corporation (OMC), Waukegan, Illinois. USEPA Region 5. RPM for this old industrial NPL site that was contaminated with PCBs. Technical expert for the Agency during negotiations with responsible parties that lasted nearly 3 years. During that time period negotiations included the evaluation of remedial alternatives for PCB contamination in soil and in sediments located in the adjacent harbor. Planning included evaluation of dredging and dewater techniques, evaluation of alternative disposal options for the PCB waste such as in place containment in the waterway, as well as a risk evaluation of the various alternatives. At the same time, Mr. Caplice served as the technical expert for the Agency as it pursued a dual track of litigation to force the responsible party to complete



the work. In that capacity, Mr. Caplice prepared technical documents to support submittals of brief and arguments to the U.S. District Court, the U.S. 7th Circuit Court of Appeals, and the U.S. Supreme Court. He also worked with Agency staff in Washington to prepare amendments to Superfund legislation to address some of the issues raised by this site. Upon leaving the Agency in 1988, the USEPA waived its standard conflict of interest rules and allowed the Responsible Party to retain Mr. Caplice to serve as a technical expert during the final stages of negotiations on the cleanup that included dredging of the harbor and ditches, construction of a containment cell in the end of the harbor, and construction of a new slip to replace the one where the containment cell was constructed.

- Verona Well Field. Battle Creek, Michigan. USEPA Region 5. On Scene Coordinator (OSC) for emergency action completed to prevent the loss of entire municipal well field to a plume of chlorinated solvents. After modeling showed that peak summer water demand would accelerate the migration of the contaminate plume into the well field, an emergency action was planned to construct a hydraulic barrier in the well field and protect the majority of the City's potable wells. Mr. Caplice was the OSC that directed the construction of the hydraulic barrier system. The project included the design and construction of a pump station capable of moving 2 million gallons of water daily from a series of existing wells across the well field. Once the target wells were identified, a series of force mains were constructed to re-direct water from the wells to a new reservoir and pump station that then pumped it through a series of carbon filtration units before discharge to the adjacent river until an air stripper could be fabricated to more efficiently remove the contaminants. The entire project was completed in 6 weeks and the system, with some modifications, is still operating today.
- Cross Brothers Pail Recycling, Pembrook, Illinois. USEPA Region 5.

  RPM for the 20 acre NPL site. The pail and drum reclamation business operated by Cross Brothers at the site from 1961 to 1980. The reclamation operation consisted of placing drums and pails containing dye, ink, and paint residue onto the ground, allowing the contents to drain. Waste solvents were then poured over the containers to dissolve the remaining residue prior to reconditioning the drums. Mr. Caplice was the RPM that coordinated the completion of an RI/FS and then interim remedial measures (IRM) in 1985 to clear the disposal area of vegetation and remove 6,500 tons of contaminated surficial soil, 60 tons of crushed pails, 550 drums contained wastes, and 580 empty drums. Following the completion of the IRM, a hydrogeological study and feasibility study were completed and groundwater was found to be contaminated with volatile organic compounds (VOCs) such as benzene, toluene, and xylenes and heavy metals including lead and the soil was contaminated with polychlorinated biphenyls (PCBs) and VOCs.
- Village of Lombard. Completed Phase I ESA AND Risk Analysis for proposed property transactions as part of downtown re-development.
- Village of Orland Park. Completed Phase I ESA AND Risk Analysis for proposed property transactions as part of downtown re-development.